

P. RUSSELL

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CRASHWORTHINESS DEVELOPMENT PROGRAM
TECHNICAL GROUP REPORT, JULY 1968

MATERIALS APPENDIXES

AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA, INC.
1725 - DE SALES STREET, N.W., WASHINGTON, D.C. 20036 • TELEPHONE 347-2315

(VOLUME 2)



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REPORT NUMBER AIA CDP-1-1

APPENDIX

VOLUME 1

APPENDIX A:
MATERIAL SURVEY CHARTS Page A-1

VOLUME 2

APPENDIX B:
FLAMMABILITY TEST DATA Page B-1

APPENDIX C:
XP2 SMOKE TEST DATA Page C-1

APPENDIX D:
NBS SMOKE TEST DATA Page D-1

APPENDIX: B
FLAMMABILITY TEST DATACAT.MATERIAL TYPES

1. Fabrics: Decorative - Drapery and Upholstery
 2. Fabrics: Non-Decorative
 3. Fabrics: Coated, Industrial
 4. Fabrics: Coated, Decorative;
Leathers: Artificial and Genuine
 5. Floor Covering: Carpets, and Vinyl Floor Covering
 6. Insulation
 7. Leathers (Category number deleted. Refer to Category 4.)
 8. Flexible Coupling Airducts
 9. Transparencies: Passenger Windows, Lightplates, and Windscreens
 10. Vinyl - Aluminum Laminate (Refer to Category 11.)
 11. Decorative Laminates: Vinyl, Aluminum, Formica, and Thermoset
 12. Potting Compounds and Sealants
 13. Adhesives and Tapes
 14. Cellular Plastics: Flexible, Semi-Rigid, and Rigid
 15. General Mechanical Parts: Rub Strips, and Decorative Extrusions
 16. Thermoplastics: Pressure - Forming Sheets, and Extrusions
(Category number deleted. Refer to Category 17.)
 17. Thermoplastics: Molding and Extruding Grades, Pressure - Forming
Sheet Stock, Decorative Materials
 18. Glass Reinforced Plastic Sheets
 - * 19. Glass Reinforced Plastic Configured Parts
 20. Decorative Elastomeric Seal Materials
 21. Elastomeric Materials, General: Synthetic Rubbers, Heat Shrinkable
Tubing, and Electrical Non-Conductors
 22. Finishes: Paints, Fillers and Sealers
 23. Electrical Conductors: Wire (Refer to Category 26)
 - * 24. Wood: Solid, and Veneers
 25. Honeycomb
 26. Miscellaneous Assemblies: Baggage Racks; Door, Partition, Sidewall,
Utility and Window Panels; Cargo Pallets; Electrical Wire;
Miscellaneous Materials; Ceiling Panels
- * No Charts for this Category.

CATEGORY I

FABRICS: DECORATIVE - DRAPERY AND UPHOLSTERY

TESTED AT 1450°F, USING PROPANE GAS.

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE									
IDENTIFICATION		Blue Stripe Upholstery Pattern #19729	MAT'L TYPE Textile						
IDENTIFICATION COLOR CODE, BAC NO.		BAC 5153, Color #255	MATERIALS 60% Nylon, 40% Rayon						
MANUFACTURER		Orinoka Mills	PROPOSED USE Seat Covering for Quebecair						
TEST METHODS XXX BMS 8-60, Section 7.2									
REQUIREMENTS BMS 8-60, Section 4.4. Materials shall be self-extinguishing within 13 seconds in horizontal and vertical positions.									
F.A.R. 25.853 (b). The average burn rate must not exceed 4 inches per minute when the material is tested in the horizontal position									
DEVIATION FROM TEST METHOD									
Tested "As-Received"									
SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
W-1		X	21.4		1.2	1.2			Horizontal position: Self-extinguishing from 21.4 to 40 seconds Heavy gray smoke evolved having strong and nauseous odor. Melting, no dripping Vertical position: Five of six specimens burn from 6.23 to 8.3 inches per minute. Same flame characteristics as above.
W-2		X	37.8		1.3	1.3			
W-3		X	24.4		1.1	1.1			
F-1		X	34.6		1.6	1.6			
F-2		X	40.0		1.4	1.4			
F-3		X	37.2		1.4	1.4			
W-1	X				12.0	6.8	108.0	6.66	
W-2	X		39.8		9.0		115.8	6.23	
W-3	X				12.0		86.6	8.3	
F-1	X				12.0		106.8	6.75	
F-2	X				12.0		100.4	7.17	
F-3	X				12.0				

CALC	R. Forte	3/15	REVISED	DATE
CHECK				
APPD				
APPD				

6-7612-4
1399
D6-1084
D6-6250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

BML 5415

Fabric

MAT'L TYPE

MATERIAL: Wool and Unknown Yarns

S-7391

PROPOSED USE: Passenger Seat Covering

IDENTIFICATION Upholstery Fabric

IDENTIFICATION COLOR CODE, BAC NO. S-7391

MANUFACTURER E. F. Tamm & Sons, Inc.

TEST METHODS AND REQUIREMENTS

Proposed BMS 8-60. Shall extinguish within 90 seconds. Char length shall not exceed 5 inches.

DEVIATION FROM TEST METHOD

Δ Dry cleaned three times by a commercial dry cleaner.

NOTE: Not a BMS 8-60 requirement.

CALC		REVISED	DATE
CHECK	B. Michaleki	2-28-67	
APPD			
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SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Warp 1	X	1.0	0	2.25	1.75	0			
2	X	32.0	0	8.50	6.5	0			
3	X	23.0	0	8.50	6.5	0			
4	X	13.7	0	6.0	5.0	0			
Fill 1	X	0	0	2.0	1.75	0			
2	X	0	0	3.0	3.00	0			
3	X	15.9	0	4.5	4.00	0			
4	X	1.3	0	3.0	2.50	0			
5	X	11.0	0	4.5	3.00	0			
6	X	0	0	3.0	2.00	0			

Moderate smoke. Melting in burning area. No dripping. Odor of burning wool.

06-1084
06-62507M
C/S
A3-631
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE									
IDENTIFICATION		Upholstery Fabric		MAT'L TYPE		Fabric		RML 5415	
IDENTIFICATION COLOR CODE, BAC NO.		S-7391		MATERIAL		Wool and Unknown Yarns			
MANUFACTURER		E. F. Timme & Sons, Inc.		PROPOSED USE		Passenger Seat Covering			
TEST METHODS AND REQUIREMENTS		Proposed BMS 8-60. Shall extinguish within 90 seconds. Char length shall not exceed 5 inches.							
DEVIATION FROM TEST METHOD		<p style="text-align: center;">▲ Oven aged at 160°F for one week. NOTE: Not a BMS 8-60 requirement.</p>							
SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Warp									
1	X		8	0	5	4.00	0	0	
2	X		22.5	0	8.25	6.00	0	0	
3	X		28.1	0	9.50	8.50	0	0	
4	X		17.9	0	7.25	5.00	0	0	
Fill									
1	X		2.7	0	3.75	3.50	0	0	
2	X		2.1	0	2.75	2.75	0	0	
3	X		5.3	0	4.50	4.00	0	0	
4	X		1.9	0	3.25	3.00	0	0	
5	X		5.1	0	3.00	2.75	0	0	
6	X		8.7	0	3.75	3.50	0	0	Moderate smoke. Melting in burning area. No dripping. Odor of burning wool.
Warp & Fill									
1		X	0		0.5				
2		X	0		0.5				
3		X	0		0.5				

CALC		REVISED	DATE
CHECK	S. Michalski	2-28-67	
APPO			
APPO			

C/S
A3-631
D6-1084
D6-6250
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Fabric - Upholstery See **1** MAT'L TYPE Fabric EML 5415

IDENTIFICATION COLOR CODE, BAC NO. 8-7391 MATERIAL Wool and unknown yarns

MANUFACTURER E. F. Timms & Sons, Inc. PROPOSED USE Passenger Seat Covering

TEST METHODS AND

REQUIREMENTS Proposed BMS 8-60. Shall extinguish within 90 seconds. Char length shall not exceed 5 inches.

DEVIATION FROM TEST METHOD

1 Flame resistance of "as received" fabric.

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Warp 1	X	1			1.0			Little white smoke. Odor of burning wool.
2	X	0			1.1			
3	X	1.3			1.0			
4	X	1			1.0			
Fill 1	X	0			1.0			
2	X	0			1.0			
3	X	0			0.9			
4	X	0			1.0			
Warp 1	X	2.7			3			
2	X	0			3			
3	X	1.5			3			
Fill 1	X	16.8		5.25	4.5			
2	X	6.2		4.80	3.6			
3	X	5.0		4.60	3.7			

CALC		REVISED	DATE
CHECK	S. Michalski		2-28-67
APPD			
APPD			

C/S	A3-631
	D6-1084
	D6-6250TH
PAGE	

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE									
IDENTIFICATION: Upholstery Fabric See <u>2</u>		MAT'L TYPE Fabric		EML 5415					
IDENTIFICATION COLOR CODE, BAC NO. S-7391		MATERIAL, Wool and Unknown Yarns							
MANUFACTURER E. F. Timme & Sons, Inc.		PROPOSED USE Passenger Seat Covering							
TEST METHODS AND REQUIREMENTS Proposed BMS 8-60. Shall extinguish within 90 seconds. Char length not exceed 5 inches. See <u>2</u>									
DEVIATION FROM TEST METHOD <u>2</u> Flame resistance after laundering. Not a BMS 8-60 requirement.									
SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Warp									
1-W	X		10.6	0	5.0	4.0			Little smoke. Melting but no dripping. Odor of burning wool.
2-W	X		25.3	0	7.0	7.0			
3-W	X		24.1	0	8.0	7.25			
Fill									
1-F	X		19.4	0	5.75	4.5			
2-F	X		6.9	0	3.0	2.0			
3-F	X		13.5	0	6.75	4.75			
4-F	X		6.2	0	4.5	3.5			
5-F	X		10.9	0	6.5	3.5			
Warp & Fill									
1		X	0						
2		X	0						
3		X	0						

CALC		REVISED	DATE	C/S A3-631 06-1084 06-6250TN PAGE
CHECK	S. Michalski	2-28-67		
APPD				
APPD				

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Upholstery Fabric - 19728 1 MAT'L TYPE Textile BML 5755
 IDENTIFICATION COLOR CODE, BAC NO. MATERIAL Rayon & Cotton - Flameproofed
 MANUFACTURER Orinoka Mills PROPOSED USE Passenger Seat Covering Hooker Process

TEST METHODS AND REQUIREMENTS BMS 8-60. Shall extinguish within 13 seconds before and after at least three dry cleanings and launderings. Average char length shall not exceed 6 inches.

DEVIATION FROM TEST METHOD

1 Fabric tested after 5 launderings

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1-W	X		0		.75	.50			Slight smoke, no dripping, no melting and slight odor. The burned and char lengths due to ignition.
2-W	X		0		2.00	1.25			
3-W	X		0		1.00	0.75			
4-W	X		0		1.00	1.00			
1-F	X		0		1.25	1.00			
2-F	X		0		1.50	1.50			
3-F	X		0		1.25	1.00			
4-F	X		0		1.25	1.00			
1-W	X	-	0		2.00	1.25			
2-W	X	-	0		2.50	1.25			
3-W	X	-	0		3.00	1.75			
4-W	X	-	0		2.50	1.25			
1-F	X	-	0		2.50	1.50			
2-F	X	-	0		3.00	1.50			
3-F	X	-	0		2.75	1.50			
4-F	X	-	0		2.50	1.25			

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CHECK				
APPD				
APPD				


C/S
 A3-764
 D6-1084
 D6-6250TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Upholstery Fabric - 19728  MAT'L TYPE Textile BML 5755
 IDENTIFICATION COLOR CODE, BAC NO. MATERIAL Rayon & Cotton-Flameproofed
 MANUFACTURER PROPOSED USE Passenger Seat Covering Hooker Process

TEST METHODS AND REQUIREMENTS BMS 8-60. Shall extinguish within 13 seconds before and after at least three dry cleanings and launderings. Average char length shall not exceed 6 inches.

DEVIATION FROM TEST METHOD

 Fabric tested after being dry cleaned 5 times.

SAMPLE NO.	MATERIAL POSITION:		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1-F	X		0		0.75	.50			Slight smoke, no melting, no dripping and slight odor. The burned and char lengths due to ignition.
2-F	X		0		1.00	.50			
3-F	X		0		0.75	.25			
4-F	X		0		1.25	1.00			
1-W	X		0		1.00	1.00			
2-W	X		0		1.00	0.75			
3-W	X		0		1.25	1.00			
4-W	X		0		2.50	1.50			
1-F	X	X	0		2.75	2.00			
2-F	X	X	0		2.25	1.50			
3-F	X	X	0		2.50	1.50			
4-F	X	X	0		3.00	1.75			
1-W	X	X	0		3.25	2.50			
2-W	X	X	0		2.25	1.75			
3-W	X	X	0		3.25	2.50			
4-W	X	X	0		3.50	2.00			

CALC.	Michalski	5-17-67	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
 A3-764
 D6-1084
 D6-6250TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Upholstery Fabric - 19728 1 MAT'L TYPE Textile BML 5755
 IDENTIFICATION COLOR CODE, BAC NO. MATERIAL Rayon & Cotton-Flameproofed-
 MANUFACTURER Orinoka Mills PROPOSED USE Passenger Seat Covering Hooker Process

TEST METHODS AND REQUIREMENTS
 BMS 8-60. Shall extinguish within 13 seconds before and after at least three dry cleanings and laundering. Average char length shall not exceed 6 inches.

DEVIATION FROM TEST METHOD
1 Fabric dry cleaned once.

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
F-1		X	0	0	1.25	0.15			Slight smoke, no dripping, no melting and slight odor. The burned and char lengths due to ignition.
F-2		X	0	0	1.25	1.00			
F-3		X	0	0	1.00	1.00			
F-4		X	0	0	1.50	0.75			
W-1		X	0	0	1.00	1.00			
W-2		X	0	0	0.75	1.00			
W-3		X	0	0	1.00	0.75			
W-4		X	0	0	1.00	0.75			
W-1	X		0	0	4.50	1.75			
W-2	X		0	0	4.00	1.50			
W-3	X		0	0	4.00	2.25			
W-4	X		0	0	4.00	2.25			
F-1	X		0	0	2.75	2.00			
F-2	X		0	0	4.00	2.00			
F-3	X		0	0	2.50	1.25			
F-4	X		0	0	3.75	2.50			

C/S
 A3-764
 D6-1084
 D6-6250TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

Upholstery Fabric - 19728 MIL 5755

MAT'L TYPE Textile

MATERIAL Rayon-Cotton Flameproofed-Hooker Process

PROPOSED USE Passenger Seat Covering

Orinoka Mills

BMS 8-60. Shall extinguish within 13 seconds before and after at least three dry cleanings and launderings. Average char length shall not exceed 6 inches.


1 Fabric tested "as received."

APPROVED	DATE
Michalski	5-17-67

TEST NO.	EXPOSURE		EXPOSURE TIME SECS.	AFTER BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	FLAME	SMOKE						
1W	X	-	0	1.0	0.5	0		Slight smoke and odor. No melting.
2W	X	-	0	1.0	0.5	0		
3W	X	-	0	1.0	0.5	0		
1F	X	-	0	1.0	0.5	0		
2F	X	-	0	1.0	0.5	0		
3F	X	-	0	1.0	0.5	0		
1W	-	X	0	1.0	0.5	0		
2W	-	X	0	1.0	0.5	0		
3W	-	X	0	1.0	0.5	0		
1F	-	X	0	1.0	0.5	0		
2F	-	X	0	1.0	0.5	0		
3F	-	X	0	1.0	0.5	0		


C/S
A3-764
D6-1084
D6-6250/TN

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Fabric - Upholstery  MAT'L TYPE Fabric RML 5415
 IDENTIFICATION COLOR CODE, BAC NO. S-7391 MATERIAL Wool and Unknown Yarns
 MANUFACTURER E. F. Timme & Sons, Inc. PROPOSED USE Passenger Seat Covering

TEST METHODS AND REQUIREMENTS Proposed BMS 8-60. Shall extinguish within 90 seconds. Char length shall not exceed 5 inches.

DEVIATION FROM TEST METHOD

 Dry cleaned once by a commercial dry cleaner.

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Warp & Fill	X	0			0.5			Moderate smoke. Melting in burning area. No dripping. Odor of burning wool.
Warp 1	X	3.2		3.0	3.0			
2	X	6.5		5.0	3.5			
3	X	0.9		3.5	3.0			
4	X	10.0		6.5	5.0			
Fill								
1	X	8.3		3.5	2.5			
2	X	14.6		6.0	3.75			
3	X	2.5		2.25	1.5			
4	X	20.0		8.0	6.25			
5	X	18.0		7.5	5.25			

CALC		REVISED	DATE	C/S
CHECK	S. Michalski	2-26	67	A3-631
APPD				D6-1084
APPD				D6-6250TN
				PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Drapery Fabric LDS 2382 MAT'L TYPE Textile NML

IDENTIFICATION COLOR CODE, BAC NO. #874 MATERIAL Nylon

MANUFACTURER Jack Lenor Larsen PROPOSED USE Drapery

TEST METHODS AND REQUIREMENTS BMS 8-59A. Shall extinguish in two seconds or less when tested in vertical position.

DEVIATION FROM TEST METHOD

Also tested in the horizontal position per D6-8099.

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER CLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Warp 1	X	307.0	0	7.75	7.75			Horizontal: Material melted and dripped. Little smoke evolved. Vertical: Same as horizontal except the drippings burned.
2	X	30.5	0	2.00	2.00			
3	X	94.0	0	2.00	2.00			
Fill 1	X	148.0	0	7.00	7.00			
2	X	164.0	0	8.00	8.00	260.0	2.31	
3	X			10.00				
Warp 1	X	29.1	0	4.50	4.50			
2	X	78.4	0	8.00	8.00			
3	X			10.00		93.0	6.45	
Fill 1	X	52.0	0	5.00	5.00			
2	X	48.9	0	5.75	5.75			
3	X	34.9	0	5.50	5.50			

CALC	<u>S. Michalski</u>	<u>8-14-67</u>	REVISED	DATE
CHECK				
APPD				
APPD				

C78
8M-58
D6-1084
D6-6250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE										
IDENTIFICATION		Coated ST-4090-1		MAT'L TYPE		Upholstery		EML 4580		
IDENTIFICATION COLOR CODE, BAC NO.				MATERIAL		Dyneel and Nylon				
MANUFACTURER		Collins & Aikman		PROPOSED USE		Seat Covering				
TEST METHODS AND REQUIREMENTS		BMS 8-60		<p>Shall extinguish within 90 seconds before and after dry cleaning. Char length shall not exceed 5 inches.</p>						
DEVIATION FROM TEST METHOD										
SAMPLE NO.	MATERIAL POSITION	VERT.	HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
1	X			2.2		1 1/2				Burn length due to ignition. Moderate smoke, melting but no dripping. NOTE: "Burned Length" is defined as the length that was charred or damaged by the flame.
2	X			23.5		1 1/2				
3	X			1.6		1				
4	X			5.6		1				
5	X			15.9						
Fill										
1	X			1.9		1				
2	X			22.7		1 1/2				
3	X			31.8		1 1/2				
4	X			31.3		1 1/2				
5	X			3.1		1 1/2				

CALC		REVISED	DATE	
CHECK	G. Michalski	1-19-67		
APPD				
APPD				
				D6-1084 D6-6250TM C/S A3-555 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE								
IDENTIFICATION	Upholstery Fabric-Honeycomb	MAT'L TYPE	Textile					
IDENTIFICATION COLOR CODE, BAC NO.		MATERIAL	Nylon					
MANUFACTURER	Collins & Ackman	PROPOSED USE	Crew seat Covering					
TEST METHODS AND REQUIREMENTS	DO-5094 Flame Resistance . Requirement: Project Memo 12.30. Shall extinguish within 15 seconds. Char length shall not exceed 4 inches when tested horizontally and 7 inches when tested vertically.							
DEVIATION FROM TEST METHOD	1 Weber Aircraft #WAC 3000-1, Weber Aircraft arranged to coat the back of the subject fabric with a flame retardant compound. One sample was laundered three times and another sample was dry cleaned three times.							
SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
2 →	X	0	0	3.00	1.0			2 Laundered three times.
	X	0	0	3.25	1.0			
3 →	X	0	0	4.25	2.0			3 Dry cleaned three times
	X	0	0	4.00	2.0			
	X	0	0	3.75	2.0			Moderate to large amount of smoke evolved.
	X	0	0	4.00	2.0			
	X	0	0	2.00	1.0			

CALC		REVISED	DATE
CHECK	S. Michalski	2/21/68	
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APPD			

e/s6-7612-4
1332
D6-1084
D6-6250T
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Upholstery Bedford Fabric  MAT'L TYPE Textile MML7997





IDENTIFICATION COLOR CODE, BAC NO. Grey MATERIAL Nylon

MANUFACTURER Collins & Aikman PROPOSED USE Crew Seat Covering

TEST METHODS AND REQUIREMENTS D6-8099 Flame Resistance.

Requirement: Project Memo 12.36. Shall extinguish within 15 seconds. Char length shall not exceed 4 inches when tested horizontally and 7 inches when tested vertically.

DEVIATION FROM TEST METHOD  Weber Aircraft #WAC 3700-1. Weber Aircraft arranged to coat the back of the subject fabric with a flame retardent compound. One sample was laundered three times and another sample was dry cleaned three times.

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
 →	x	45.3	0	5.00	2.50			 Laundered three times.
	x	61.3	0	5.00	1.75			
	x	19.5	0	5.25	2.25			
	x	35.1	13	5.25	2.50			
	x	27.6	9	3.00	2.00			
	x	42.3	11	4.25	2.50			
 →	x	11.4	0	2.00	1.25			 Dry Cleaned three times. Moderate to large amount of smoke evolved.
	x	11.1	0	4.00	2.50			
	x	17.9	0	5.00	3.00			
	x	15.3	0	5.00	3.75			

CALC		REVISED	DATE
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APPD			
APPD			

66-7612-1
1332
06-1084
06-6250T
PAGE 1

TEST REPORT DATA SHEET

Upholstery Fabrics
Flameproofed

Collins & Aikman Fabric submitted
by Weber Aircraft Corp. (WAC)

MATERIAL TYPE

MANUFACTURER

BAC CODE

CODE Bedford & Honeycomb Pattern

PROPOSED USE Crew Seat Covering

MATERIAL Nylon

EXPLANATORY INFORMATION:

1 WAC No. 3600-1 (honeycomb) : laundered three times
 2 WAC No. 3600-1 (honeycomb) : drycleaned three times
 3 WAC No. 3700-1 (bedford) : laundered three times
 4 WAC No. 3700-1 (bedford) : drycleaned three times

CHARACTERISTIC	TEST METHOD	DEVIATION FROM TEST METHOD	REQUIREMENT	RESULTS				
				Idnt.	I _s	F _s	Q	Smoke mg.
Flame Spread Properties	ASTM-E-162	Two specimens tested. Note: Four specimens are normally tested.	Project Memo 12.36. I _s : 30 or less Q: 8 or less F _s : 1C or less	1	98.6	18.02	6.03	8.2
				2	6.89	1.00	6.89	8.8
				3	104.01	11.45	9.52	4.4
				4	88.84	8.04	10.58	5.8

CALC		REVISED	DATE
CHECK	S. Michalski	2/21/68	
APPD			
APPD			

6-86-7612-4
 1332
 6-1084
 6-6250TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE										
IDENTIFICATION		Timm Drapery		Vermont		MAT'L TYPE		Textile		EML 7430
IDENTIFICATION COLOR CODE, BAC NO.		BAC #846		Putty		MATERIAL				
MANUFACTURER		E. F. Timme		PROPOSED USE		Drapery				
TEST METHODS AND REQUIREMENTS		D6-8099		Material shall be self-extinguishing in the warp and fill directions when tested in the vertical and horizontal positions. Char length shall not exceed eight inches in the vertical position and four inches in the horizontal.						
DEVIATION FROM TEST METHOD		DRY CLEANED THREE TIMES								
SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS	
	VERT.	HORIZ.								
W-1	X		1.2		4.0	3.5				
W-2	X		10.2		5.0	4.5				
W-3	X		1.7		3.75	3.0				
W-1		X	0		2.0	2.0				
W-2		X	0		2.25	2.25				
W-3		X	4.3		1.5	1.25				
F-1	X				10.0		37.6	16		
F-2	X		7.4		4.5	2.75				
F-3	X		2.3		3.25	3.0				
F-1		X	1.5		1.25	.75				
F-2		X	0.7		1.0	1.0				
F-3		X	1.8		1.0	.5				

CALC	R. J. Forte	11-27-67	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
6-7612-4-78
D6-1084
D6-6250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

EML 7430

MAT'L TYPE Textile

Timme Drapery Vermont

MATERIAL

BAC #846 Putty

PROPOSED USE Drapery

MANUFACTURER E. F. Timme

TEST METHODS AND REQUIREMENTS D6-8099

Material shall be self-extinguishing in the warp and fill directions when tested in the vertical and horizontal positions. Char length shall not exceed eight inches in the vertical position and four inches in the horizontal.

DEVIATION FROM TEST METHOD

AFTER FIVE LAUNDERINGS

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	AFTER BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
W-1	X		0	0	3.25	3.0			
W-2	X		0	0	2.25	2.5			
W-3	X		16.8	0	4.5	4.0			
W-1		X	0	0	1.0	1.0			
W-2		X	0.8	0	1.0	0			
W-3		X	0.7	0	1.0	1.0			
F-1	X		0	0	3.5	3.25			
F-2	X		20.3	0	3.5	3.0			
F-3	X		39.4	0	8.0	6.75			
F-1		X	0	0	1.5	1.0			
F-2		X	0	0	1.75	1.75			
F-3		X	0	0	1.5	1.5			

CALC	R. J. Forte	11-27-66	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
6-7612-4-
D6-1084
D6-6250TH
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Timme Drapery Vermont MAT'L TYPE Textile EML 7351
 IDENTIFICATION COLOR CODE, BAC NO. BAC #846 Putty MATERIAL
 MANUFACTURER PROPOSED USE Drapery

TEST METHODS AND D6-8099

REQUIREMENTS Material shall be self-extinguishing in the warp and fill directions when tested in the vertical and horizontal positions. Char length shall not exceed eight inches in the vertical position and four inches in the horizontal.

DEVIATION FROM TEST METHOD

"AS RECEIVED"

CALC	R. J. Forte	11-27-61	REVISED	DATE
CHECK				
APPD				
APPD				

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
W-1	X		0		2.50	0			Heavy amount of smoke evolved. No dripping. Strong odor. Burned length due to ignition.
W-2	X		0		3.25	0			
W-3	X		0		2.25	0			
W-1		X	0		1.25	0			
W-2		X	0		1.25	0			
W-3		X	0		1.00	0			
F-1	X		0		3.25	0			
F-2	X		0		3.25	0			
F-3	X		0		2.75	0			
F-1		X	0		0.50	0			
F-2		X	0		1.25	0			
F-3		X	0		1.25	0			

C/S
 6-7612-4-478
 D6-1084
 D6-6250TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Timme Drapery #S-7400 MAT'L TYPE Textile IML 7430

IDENTIFICATION COLOR CODE, BAC NO. BAC #562, Blue MATERIAL

MANUFACTURER E. F. Timme PROPOSED USE Drapery

TEST METHODS AND D6-8099

REQUIREMENTS Material shall be self-extinguishing in the warp and fill directions when tested in the vertical and horizontal positions. Char length shall not exceed eight inches in the vertical position and four inches in the horizontal.

DEVIATION FROM TEST METHOD

DRY CLEANED THREE TIMES

SAMPLE NO.	MATERIAL POSITION: VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
W-1	X	0		5.75	3.75			
W-2	X	1.1		5.25	3.5			
W-3	X	20.5		6.0	5.0			
W-1	X	0		2.75	2.75			
W-2	X	0		3.0	3.0			
W-3	X	0		2.5	2.5			
F-1	X	1.2		6.5	4.0			
F-2	X	0.6		4.5	0			
F-3	X	0.7		5.5	5.0			
F-1	X	0		1.75	1.75			
F-2	X	5.8		2.5	2.5			
F-3	X	0		1.0	1.0			

CALC	R.J. Forte	11-27-67	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
6-7612-4-478
D6-1084
D6-6250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Timme Drapery #S-7400 MAT'L TYPE Textile MML 7430
 IDENTIFICATION COLOR CODE, BAC NO. BAC #562, Blue MATERIAL
 MANUFACTURER E. F. Timme PROPOSED USE Drapery

TEST METHODS AND REQUIREMENTS D6-8099
 Material shall be self-extinguishing in the warp and fill directions when tested in the vertical and horizontal positions. Char length shall not exceed eight inches in the vertical position and four inches in the horizontal.

DEVIATION FROM TEST METHOD

AFTER FIVE LAUNDERINGS

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
W-1	X		0		5.0	3.5			
W-2	X		0		4.0	0			
W-3	X		0		4.0	2.5			
W-1		X	1.62		2.0	0			
W-2		X	0.7		2.0	0			
W-3		X	0.9		1.0	1.0			
F-1	X		0.8		4.75	4.25			
F-2	X		0.3		4.0	1.50			
F-3	X		1.5		3.0	1.75			
F-1		X	0.9		1.0	1.0			
F-2		X	3.5		1.25	0			
F-3		X	6.1		1.5	0			

CALC	R. J. Forte	11-27-66	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
 6-7612-4-78
 D6-1084
 D6-6250TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

MML 7351

MAT'L TYPE Textile

IDENTIFICATION Timme Drapery #S-7400

IDENTIFICATION COLOR CODE, BAC NO. BAC #562 Blue MATERIAL

MANUFACTURER E. F. Timme PROPOSED USE Drapery

TEST METHODS AND D6-8099

REQUIREMENTS Material shall be self-extinguishing in the warp and fill directions when tested in the vertical and horizontal positions. Char length shall not exceed eight inches in the vertical position and four inches in the horizontal.

DEVIATION FROM TEST METHOD

"AS RECEIVED"

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
W-1	X		0		2.50	0			Heavy amount of smoke evolved. No dripping occurred. Strong odor.
W-2	X		17.1		5.50	0			
W-3	X		0		3.00	0			
W-1		X	2.6		1.25	0			
W-2		X	6.1		1.50	0			
W-3		X	4.5		1.25	0			
F-1	X		0		4.50	0			
F-2	X		0		2.75	0			
F-3	X		0		4.50	0			
F-1		X	6.2		1.25	0			
F-2		X	11.0		1.50	0			
F-3		X	7.0		1.50	0			

CALC	R. J. Forte	11-27-67	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
6-7612-4-478
D6-1084
D6-6250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Timme Drapery #S-7401 MAT'L TYPE Textile EML 7430
 IDENTIFICATION COLOR CODE, BAC NO., BAC # 355, Yellow-Orange MATERIAL
 MANUFACTURER E. F. Timme PROPOSED USE Drapery

TEST METHODS AND REQUIREMENTS D6-8099

Material shall be self-extinguishing in the warp and fill directions when tested in the vertical and horizontal positions. Char length shall not exceed eight inches in the vertical position and four inches in the horizontal.

DEVIATION FROM TEST METHOD

DRY CLEANED THREE TIMES

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
W-1	X	2.1		4.75	3.0			
W-2	X	3.0		4.50	4.25			
W-3	X	2.7		6.0	5.5			
W-1	X	0		1.75	1.75			
W-2	X	0		2.9	2.9			
W-3	X	0		2.5	2.5			
F-1	X	4.7		3.75	2.0			
F-2	X	1.0		6.25	6.25			
F-3	X	0.9		4.0	0			
F-1	X	13.0		2.0	1.75			
F-2	X	1.65		1.6	1.75			
F-3	X	1.3		2.5	2.5			

CALC	R. J. Forte	11-27-66	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
 8-7612-4-478
 D6-1084
 D6-6250TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

MML 7430

MAT'L TYPE Textile

IDENTIFICATION Timme Drapery

MATERIAL

IDENTIFICATION COLOR CODE, BAC NO. BAC #355, Yellow-Orange

PROPOSED USE Drapery

MANUFACTURER E. F. Timme

TEST METHODS AND Do-8099

REQUIREMENTS

Material shall be self-extinguishing in the warp and fill directions when tested in the vertical and horizontal positions. Char length shall not exceed eight inches in the vertical position and four inches in the horizontal.

DEVIATION FROM TEST METHOD

AFTER FIVE LAUNDERINGS

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
W-1	X		23.2	0	6.5	5.0			
W-2	X		13.7	0	4.5	4.0			
W-3	X				12.0		36.5	19.7	
W-1		X	1.6	0	1.0	0			
W-2		X	3.93	0	2.1	0			
W-3		X	2.75	0	1.0	1.0			
F-1	X		18.9	0	4.0	0			
F-2	X		19.6	0	4.75	0			
F-3	X		13.0	0	4.0	2.5			
F-1	X	X	0	0	1.25	1.0			
F-2	X	X	0.6	0	1.0	1.0			
F-3	X	X	0.0	0	1.5	1.25			

CALC	R. J. Forte	11-27-67	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
6-7612-4-178
D6-1084
D6-6250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE										
IDENTIFICATION		Timme Drapery #S-7401		MAT'L TYPE		Textile		EML		7351
IDENTIFICATION COLOR CODE, BAC NO.				BAC #355		Yellow-Orange		MATERIAL		
MANUFACTURER				E. F. Timme		PROPOSED USE		Drapery		
TEST METHODS AND REQUIREMENTS		Db-8099		Material shall be self-extinguishing in the warp and fill directions when tested in the vertical and horizontal positions. Char length shall not exceed eight inches in the vertical position and four inches in the horizontal.						
DEVIATION FROM TEST METHOD										
"AS RECEIVED"										
SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS	
W-1	X		0		3.75	0			Moderate amount of smoke evolved.	
W-2	X		0		3.75	0			No dripping occurred.	
W-3	X		0		3.00	0			Slight odor.	
W-1		X	0		0.50	0			Burned length due to ignition.	
W-2		X	0		0.50	0				
W-3		X	0		0.50	0				
F-1	X		0		3.75	0				
F-2	X		0		2.50	0				
F-3	X		0		3.75	0				
F-1		X	0		0.75	0				
F-2		X	0		0.50	0				
F-3		X	0		0.75	0				

CALC	R. J. Forte	11-27-61	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
6-7612-4-4 8
D6-1084
D6-6250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Timme Drapery #S-7405 MAT'L TYPE Textile EML 7430

IDENTIFICATION COLOR CODE, BAC NO. BAC #9190 Olive Blue MATERIAL MATERIAL

MANUFACTURER E. F. Timme PROPOSED USE Drapery

TEST METHODS AID D6-6099

REQUIREMENTS Material shall be self-extinguishing in the warp and fill directions when tested in the vertical and horizontal positions. Char length shall not exceed eight inches in the vertical position and four inches in the horizontal.

DEVIATION FROM TEST METHOD

DRY CLEANED THREE TIMES

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED			BURN RATE IN/MIN	COMMENTS
				LENGTH INCHES	CHAR LENGTH INCHES	TIME SECS.		
W-1	X	2.4		2.4	1.75			
W-2	X	0.8		3.0	1.75			
W-3	X	3.8		3.5	2.5			
W-1	X	0		2.05	2.25			
W-2	X	0		2.5	2.40			
W-3	X	0		2.0	2.10			
F-1	X	4.3		4.5	3.0			
F-2	X	1.2		3.0	0			
F-3	X	1.9		4.0	3.9			
F-1	X	0		1.5	0.5			
F-2	X	0		1.0	1.0			
F-3	X	0		1.0	1.0			

CALC	R. I. Forte	11-27-67	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
6-7612-4-178
D6-1084
D6-6250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE									
IDENTIFICATION		Timme Drapery #S-7405		MAT'L TYPE		Textile		RML 7430	
IDENTIFICATION COLOR CODE, BAC NO.		BAC #9190, Olive Blue		MATERIAL					
MANUFACTURER		E. F. Timme		PROPOSED USE		Drapery			
TEST METHODS AND REQUIREMENTS		D6-8099		Material shall be self-extinguishing in the warp and fill directions when tested in the vertical and horizontal positions. Char length shall not exceed eight inches in the vertical and four inches in the horizontal.					
DEVIATION FROM TEST METHOD									
SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	AFTER BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
W-1	X				10		38.4	15.6	
W-2	X		26.9		5.75	4.75			
W-3	X		23.4		6.5	5.0			
W-1		X	0		1.5	0			
W-2		X	0.6		.25	.25			
W-3		X	0		1.10	1.10			
F-1	X		23.1		4.75	4.25			
F-2	X		22.0		3.25	3.0			
F-3	X				10		43.1	13.9	
F-1		X	0		1.0	1.0			
F-2		X	0		1.75	1.75			
F-3		X	0		1.5	0			

CALC	R. J. Forte	11-27-97	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
6-7612-4-178
06-1084
06-0250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

MML 7351

IDENTIFICATION Timme Drapery #S-7405 MAT'L TYPE Textile

IDENTIFICATION COLOR CODE, BAC NO., BAC #9190 Olive Blue MATERIAL

MANUFACTURER E. F. Timme PROPOSED USE Drapery

TEST METHODS AND REQUIREMENTS D6-8099

Material shall be self-extinguishing in warp and fill direction when tested in the vertical and horizontal positions. Char length shall not exceed eight inches in the vertical position and four inches in the horizontal.

DEVIATION FROM TEST METHOD

"AS RECEIVED"

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.						
W-1	X		0		1.25	0		Moderate amount of smoke evolved. Melting but no dripping occurred. Strong odor.
W-2	X		0		2.25	0		
W-3	X		0		2.00	0		
W-1		X	0		0.25	0		Burned length due to ignition.
W-2		X	0		0.75	0		
W-3		X	0		1.00	0		
F-1	X		4.4		3.25	0		
F-2	X		8.1		3.75	0		
F-3	X		5.5		1.75	0		
F-1		X	0		1.00	0		
F-2		X	10.1		1.25	0		
F-3		X	8.9		1.25	0		

CALC	R.J. Forte	11-27-67	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
6-7612-4-478
D6-1084
D6-6250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE									
IDENTIFICATION Upholstery Fabric		MAT'L TYPE Textile Products		BML					
IDENTIFICATION COLOR CODE, BAC NO. Dark Blue, Light Blue & Green		MATERIAL		Wool and Mohair					
MANUFACTURER Not known. Made in France.		PROPOSED USE		Passenger Seat Covering					
TEST METHODS AND REQUIREMENTS BMS 8-60. Shall extinguish in 13 seconds or less when tested in horizontal and vertical positions.									
DEVIATION FROM TEST METHOD									
SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Fill									
1	X		5		.75	1.00			Horizontal:
2	X		7		1.00	1.25			Little smoke and flame.
3	X		6		.75	1.00			Vertical:
Warp									Moderate smoke and large flame.
1	X		7		1.12	1.25			
2	X		7		1.00	1.12			
3	X		17		1.00	1.40			
Fill									
1	X				10		33	18.20	
2	X				10		35	17.20	
3	X				10		36	16.70	
Warp									
1	X				10		37	16.20	
2	X				10		36	16.70	
3	X				10		42	14.30	

9461	Michalaki 8-5-67	REVISED	DATE
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C/S
SM-52
06-1084
06-62507M
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TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE								
IDENTIFICATION	Upholstery Fabric	MAT'L TYPE	EML 6164					
IDENTIFICATION COLOR CODE, BAC NO.	Patterns K 15435N (Rosebud) and	MATERIAL	Nomex Fill: Vere?					
MANUFACTURER	Craftex Sales, Inc. K 15435N (Strips)	PROPOSED USE	Passenger Seats					
TEST METHODS AND REQUIREMENTS	Test Method: Proposed BMS 8-60, dated 3-2-67 Requirements: Shall extinguish within 35 seconds. Average char length shall not exceed 6 inches.							
DEVIATION FROM TEST METHOD Material tested after three dry cleanings.								
SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT. HORIZ.							
Warp								
1	X	0	2.0	4 1/4	3 3/4			All burn lengths due to ignition. Light grey smoke.
2	X	0	3.0	3 3/4	7 1/4			
3	X	1.0	3.0	3 3/4	3			
4	X	0	15.0	1	1			
5	X	0	1.0	1-1/8	1-1/8			
6	X	0	3.0	3/4	3/4			
Fill								
1	X	2.0	14.0	2 1/2	1-1/8			All burn lengths due to ignition. Light grey smoke.
2	X	0	18.0	2 1/4	1 1/4			
3	X	0	6.0	3-3/8	1 1/2			
4	X	0	11.0	3/4	3/4			
5	X	0	0	7/8	5/8			
6	X	2.0	0	3/4	3/4			

CALC		REVISED	DATE		C/S
CHECK	S. Michalski	7-25-67			SM-44
APPRO					D6-1084
APPRO					D6-6250TN
					PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Upholstery Fabric **1** MAT'L TYPE Textile **BML 6164**
 IDENTIFICATION COLOR CODE, BAC NO. Patterns K 15435N (Rosebud) and MATERIAL Warp: Nomex Fill: Verel
 MANUFACTURER Craftex Sales, Inc. K 15434N (Strips) PROPOSED USE Passenger Seats

TEST METHODS AND REQUIREMENTS
 Test Method: Proposed BMS 8-60, dated 3-2-67
 Requirements: Shall extinguish within 35 second. Average char length shall not exceed 6 inches.

DEVIATION FROM TEST METHOD

1 Material tested after three launderings

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SAMPLE NO.	MATERIAL POSITION: VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
1	X	0	7.1	3 1/2	2 1/4			Moderate black smoke. Burn length due to ignition.
2	X	0	3.6	4 1/2	1 1/4			
3	X	2.0	5.9	3 1/4	1			
4	X	0	2.9	4 1/2	1 1/2			
5	X	0	4.6	2-7/8	1 1/2			
6	X	4.2	0	1/2	3/4			
7	X	2.0	0	1	1/2			
8	X	1.4	0	1	1/8			
Fill								
1	X	1.4	0	4	4			
2	X	0	2.0	4	4			
3	X	2.0	0	5 1/4	5 1/4			
4	X	0	4.4	3-7/8	3-7/8			
5	X	1.0	0	3 3/4	3-7/8			
6	X	0	1.0	1	1			
7	X	2.0	2.0	1	1			
8	X	0	0	1-1/8	1-1/8			

C/S SM-44
 D6-1084
 D6-6250TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Upholstery Fabric **1** MAT'L TYPE Textile **ML** 6164

IDENTIFICATION COLOR CODE, BAC NO. Patterns K15435N (Rosebud) and K15434N (Stripe) MATERIAL Warp: Nomex Fill: Verel

MANUFACTURER Craftex Sales, Inc. **PROPOSED USE** Passenger Seats

TEST METHODS AND REQUIREMENTS Test Method: Proposed BMS 8-60, dated 3-2-67 Requirements: Shall extinguish within 35 seconds. Average char length not exceed 6 inches.

DEVIATION FROM TEST METHOD

1 Material tested "as received."

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Warp									
1	X		0	11.4	3-3/8	1-1/2			Burn lengths due to ignition. Moderate grey smoke.
2	X		0	9.9	3-3/4	1-5/8			
3	X		1.2	1.0	2-3/8	1-1/2			
4		X	1.0	0	7/8	3/4			Burn lengths due to ignition. Moderate grey smoke.
5		X	1.8	0	3/4	3/4			
6		X	4.6	0	1	3/4			
Fill									
1	X		0	5.7	1-3/4	1-3/4			Burn lengths due to ignition. Moderate grey smoke.
2	X		2.0	0	4.0	4.0			
3	X		2.0	0	2-3/4	2-3/4			
4		X	0	2.8	5/8	5/8			Burn lengths due to ignition. Moderate grey smoke.
5		X	0	1.2	1-1/4	1-1/4			
6		X	1.5	0	7/8	7/8			

CALC		REVISED	DATE
CHECK	S. Michalski	7-25-67	
APPD			
APPD			

C/S
SM-44
D6-1084
D6-6250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE									
IDENTIFICATION Upholstery Fabric, 15.2 oz/sq. yd.		MAT'L TYPE Textile Product		BML					
IDENTIFICATION COLOR CODE, BAC NO. Two Tone Gray/Slub Yarn Texture		MATERIAL Wool		PROPOSED USE Passenger Seat Covering					
MANUFACTURER Mobelstoffweber & Co.		TEST METHODS AND Proposed BMS 8-60. Shall extinguish in 13 seconds or less. Average char							
REQUIREMENTS length shall not exceed 6 inches.		DEVIATION FROM TEST METHOD							
SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Warp 1	X				10		41	14.6	<u>Vertical:</u> Little smoke. Large flame. Melting in burning area. No dripping. Odor of burning wool. <u>Horizontal:</u> Same as vertical except small flame.
2	X				10		37	16.2	
3	X				10		40	15.0	
Fill 1	X				10		40	15.0	
2	X				10		37	16.2	
3	X				10		38	15.8	
Warp 1		X	41		1.25	1.38			
2		X	31		1.0	1.12			
3		X	11		0.75	1.0			
Fill 1		X	13		0.75	1.0			
2		X	23		1.0	1.12			
3		X	15		0.75	0.75			

CALC		REVISED	DATE	C/S SM-33 D6-6250 IN PAGE
CHECK	S. Michalski	7-17-67		
APPD				
APPD				

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Style 750-44, Lot 15565 MAT'L TYPE Textile RML 6165

IDENTIFICATION COLOR CODE, BAC NO. Color 1747 Green MATERIAL Beta Fiberglass

MANUFACTURER Uniglass Industries PROPOSED USE Upholstery or Drapery

TEST METHODS AND REQUIREMENTS
 1. BMS 8-60. Shall extinguish in 13 seconds or less.
 2. BMS 8-59. Shall extinguish in 2 seconds or less.

DEVIATION FROM TEST METHOD

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Warp	X		0	0	1.6	0			Small amount of smoke evolved.
Fill	X		0	0	1.6	0			
Warp		X	0	0	1.0	0			
Fill		X	0	0	1.0	0			

Subc	Michalski	7-12-67	REVISED	DATE	A3-8M-16
CHECK					D6-6250TW
APPD					PAGE
APPD					

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE									
IDENTIFICATION		See D			MAT'L TYPE		Textile		RML
IDENTIFICATION COLOR CODE, BAC NO. Color:		Blue and Turquoise		MATERIAL		100% Polyester			
MANUFACTURER		F. Schumacher and Company			PROPOSED USE Passenger Seat Covering				
TEST METHODS AND REQUIREMENTS		Proposed BMS 8-60. Shall extinguish in 13 seconds or less.							
DEVIATION FROM TEST METHOD		D Upholstery Fabric. Pattern No. 980093. Weight 14.9 oz. / yd. ²							
SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Warp			61			9.25			Vertical: Heavy black smoke evolved. Some melting. No dripping. Odor not objectionable. Horizontal: Same as under vertical except moderate to heavy black smoke evolved.
1	X				10		54	11.1	
2	X				10		52	11.5	
3	X								
Fill									
1	X				10		53	11.3	
2	X				10		50	12.0	
3	X				10		51	11.8	
Warp					1.5	1.5			
1	X		31		1.0	1.0			
2	X		19		1.0	1.0			
3	X		25		1.0	1.0			
Fill					1.38	1.38			
1	X		42		0.75	0.75			
2	X		18		1.0	1.0			
3	X		24						

SN-4
D6-1084
D6-6250TW
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

MIL 4843

MAT'L TYPE

IDENTIFICATION Fabric Style 5112

IDENTIFICATION COLOR CODE, BAC NO. 11-Linen Tan & White Stripes MATERIAL 81% Dacron & 19% cotton

MANUFACTURER Cohn-Hall-Marx Company PROPOSED USE Upholstery or Drapery

TEST METHODS AND

REQUIREMENTS Test Method: Proposed BMS 8-60.

Requirements: Upholstery: Shall extinguish within 90 seconds, horizontal and vertical.
 Drapery: Shall extinguish in 2 seconds or less when tested in vertical position.

DEVIATION FROM TEST METHOD

CAF-1
B-38

By	Michalski	3-1-67	REVISED	DATE
CHECK				
APPD				
APPD				

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1-W	-	X			10	10	250.5	2.39	Large amount of smoke evolved.
2-W	-	X			10	10	272.2	2.20	
3-W	-	X			10	10	238.1	2.52	
1-F	-	X			10	10	44.1	13.6	
2-F	-	X			10	10	37.3	16.1	
3-F	-	X			10	10	39.7	15.1	
1-W	X	-			10	10	25.3	23.7	
2-W	X	-			10	10	22.4	26.8	
3-W	X	-			10	10	24.1	24.9	
1-F	X	-			10	10	11.3	53.1	
2-F	X	-			10	10	10.6	56.6	
3-F	X	-			10	10	16.1	37.3	

C/S
A3-636
D6-1084
D6-6250TH
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Fabric Style 5105 MAT'L TYPE **ML** 4843
 IDENTIFICATION COLOR CODE, BAC NO. 4-Awua MATERIAL 77% Dacron & 23% cotton
 MANUFACTURER Cohn-Hall-Marx Company PROPOSED USE Upholstery and Drapery

TEST METHODS AND

REQUIREMENTS Test Method: Proposed BMS 8-60

Requirements: Upholstery: Shall extinguish within 90 seconds, horizontal and vertical.
 Drapery: Shall extinguish in 2 seconds or less when tested in vertical position.

DEVIATION FROM TEST METHOD

CASE	Michalski	3-1-67	REVISED	DATE
CHECK				
APPD				
APPD				

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1-W	X				10	10	334	1.80	Large amount of smoke evolved.
2-W	X				10	10	274	2.19	
1-F	X				10	10	106	5.66	
2-F	X				10	10	123	4.87	
1-F		X			10	10	8	75.0	
2-F		X			10	10	13	46.1	
1-W	X				10	10	11	54.5	
2-W	X				10	10	10	60.0	

C/S
 A3-636
 D6-1084
 D6-6250PM
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Fabric Style 5105 MAT'L TYPE BML 4843
 IDENTIFICATION COLOR CODE, BAC NO. 11 - Linen Beige MATERIAL 77% Dacron & 23% cotton
 MANUFACTURER Cohn-Hall-Marx Company PROPOSED USE Upholstery or Drapery

TEST METHODS AND REQUIREMENTS

Test Method: Proposed BMS 8-60
 Requirements: Upholstery: Shall extinguish within 90 seconds, horizontal and vertical.
 Drapery: Shall extinguish in 2 seconds or less when tested in vertical position.

DEVIATION FROM TEST METHOD

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1-W	-	X			10	10	308.8	1.95	Large amount of smoke evolved.
2-W	-	X			10	10	301.7	1.99	
3-W	-	X			10	10	327.2	1.83	
1-F	-	X			10	10	254.6	2.36	
2-F	-	X			10	10	107.6	5.57	
3-F	-	X			10	10	302.5	1.98	
1-W	X	-			10	10	13.4	44.8	
2-W	X	-			10	10	13.5	44.5	
3-W	X	-			10	10	11.5	52.2	
1-F	X	-			10	10	10.4	57.7	
2-F	X	-			10	10	13.5	44.5	
3-F	X	-			10	10	12.4	48.4	

GPc	Nichalski	3-1-67	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
 A3-636
 D6-1084
 D6-6250TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE									
IDENTIFICATION	BOAC Red Stripes	MAT'L TYPE	Fabric						
			BML 6074						
IDENTIFICATION COLOR CODE, BAC NO.		MATERIAL							
Not Known		Not Known							
MANUFACTURER		PROPOSED USE							
Not Known		Drapery							
<p>TEST METHODS AND BMS 8-59A. Shall extinguish in two seconds or less when tested in the vertical position. Char length shall not exceed 6 inches.</p>									
DEVIATION FROM TEST METHOD									
Also tested in the horizontal position per FAA FSSR #453.									
SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
<u>Ward</u>									
1	X		2.0	39.6	3/4	3/4	3/4		Smoke density was slight on all specimens with light grey color. Burn length due primarily to ignition. No evidence of dripping, fuming, or melting.
2	X		4.0	59.1	7/8	7/8	7/8		
3	X		3.0	47.3	3/4	3/4	3/4		
4		X	0	132.9	2-1/8	2-1/8	2-1/8		
5		X	0	63.9	1-7/8	1-7/8	1-7/8		
6		X	0	50.0	2-3/8	2-3/8	2-3/8		
<u>Fill</u>									
1	X		0	39.2	7/8	7/8	7/8		
2	X		0	65.7	1.0	1.0	1.0		
3	X		0	40.8	1/2	1/2	1/2		
4		X	0	103.8	1-1/4	1-1/4	1-1/4		
5		X	0	105.2	1-1/4	1-1/4	1-1/4		
6		X	0	80.3	1-1/4	1-1/4	1-1/4		

SALE	Michalski 5-10-67	REVISED	DATE
CHECK			
APPD			
APPD			

C/S
A3-743
D6-1084
D6-6250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Upholstery Fabric #5105A MAT'L TYPE Fabric BML
 IDENTIFICATION COLOR CODE, BAC NO. MATERIAL Not Known

MANUFACTURER Henrose Company PROPOSED USE Passenger Seat Covering

TEST METHODS AND BMS 8-60. Shall extinguish in 13 seconds or less before and after dry cleaning requirements and laundering. Char length shall not exceed 6 inches.

DEVIATION FROM TEST METHOD

Due to limited amount of fabric, the subject fabric was tested before dry cleaning and laundering.

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Warp									
1	X		0		1.0	0			Slight grey smoke evolved. Pungent odor.
2	X		0		1.12	0.12			
3	X		0		1.0	0			
Fill									
1	X		0		1.0	0			
2	X		0		1.4	0			
3	X		0		1.25	0			
Warp		X X X							
1		X	0		1.0	0.19			
2		X	0		1.25	0.12			
3		X	0		1.62	0.25			
Fill									
1		X	0		1.12	0.12			
2		X	0		1.12	0.25			
3		X	0		1.00	0.12			

By: Michalaki 5-10-67	REVISED	DATE
CHECK		
APPD		
APPD		

C/S
 A3-744
 D6-1084
 D6-6250TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE									
IDENTIFICATION	ST-4085-1	MAT'L TYPE	Upholstery Fabric	NML	4580				
IDENTIFICATION COLOR CODE, BAC NO.		MATERIAL Beta Glass and Verel							
MANUFACTURER Collins & Aikman		PROPOSED USE Seat Covering							
TEST METHODS AND REQUIREMENTS		BMS 8-60							
Shall extinguish within 90 seconds before and after dry cleaning. Char length shall not exceed 5 inches.									
DEVIATION FROM TEST METHOD		Dry cleaned three times.							
SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER CLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Warp									
1	X		0.5		1 1/2	0			Burned length due to ignition. Heavy smoke. No melting or dripping. Unpleasant odor. NOTE: "Burned Length" is defined as the length that was charred or damaged by the flame.
2	X		0.7		1 1/4	0			
3	X		0.5		1 1/2	0			
4	X		0.7		1 1/2	0			
5	X		0.8		1 1/2	0			
6	X		0.5		1 1/2	0			
7	X		0.7		1	0			
Fill									
1	X		0.8		3/4	0			
2	X		1.0		1 1/2	0			
3	X		0.5		1 1/2	0			
4	X		0.7		3/4	0			
5	X		0.6		1 1/2	0			
6	X		0.4		1 1/4	0			
7	X		0.5		1 1/4	0			

CALC			REVISED	DATE
CHECK	S. Michalski		1-19-67	
APPD				
APPD				

C/S
A3-555
D6-1084
D6-6250TM
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION ST-4085-1 MAT'L TYPE Upholstery Fabric FNL 4580
 IDENTIFICATION COLOR CODE, BAC NO. MATERIAL Beta Glass and Verel
 MANUFACTURER Collins & Aikman PROPOSED USE Seat Covering

TEST METHODS AND REQUIREMENTS
 BMS 8-60

Shall extinguish within 90 seconds before and after dry cleaning. Char length shall not exceed 5 inches.

DEVIATION FROM TEST METHOD
 Dry cleaned three times.

CALC		REVISED	DATE
CHEK	S. Michalski	1-19-67	
APPD			
APPD			

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Warp								
1	X	6.5		5	1/4			Heavy smoke. No melting or dripping. Unpleasant odor. NOTE: "Burned Length" is defined as the length that was charred or damaged by the flame.
2	X	7.2		5				
3	X	5.3		5 1/2				
4	X	1.7		4 3/4				
5	X	2.3		4 3/4				
6	X	4.5		6				
7	X	1.6		5				
Fill								
1	X	8.2		6 1/4				
2	X	9.5		7 1/4				
3	X	7.6		6				
4	X	6.8		6				
5	X	4.9		5 1/2				
6	X	7.0		6 1/4				
7	X	5.8		5 1/4				

C/S
 A3-555
 D6-1084
 D6-6250TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE									
IDENTIFICATION		ST-4085-1		MAT'L TYPE		Upholstery Fabric		EML 4580	
IDENTIFICATION COLOR CODE, BAC NO.				MATERIAL		Beta Glass - Vene			
MANUFACTURER		Collins & Aikman		PROPOSED USE		Seat Covering			
TEST METHODS AND REQUIREMENTS		BMS 8-60							
Shall extinguish within 90 seconds before and after dry cleaning. Char length shall not exceed 5 inches.									
DEVIATION FROM TEST METHOD									
SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Warp									
1	X		0.2		1 1/2	0			Burn length due to ignition. Heavy smoke. No melting or dripping. Unpleasant odor. NOTE: "Burned Length" is defined as the length that was charred or damaged by the flame.
2	X		0.1		1 1/2	0			
3	X		0.3		1 1/2	0			
4	X		0.6		1 1/2	0			
5	X		0.2		1 1/2	0			
Fill									
1	X		0.4		1 1/2	0			
2	X		0.5		1 1/2	0			
3	X		12.7		1 1/2	0			
4	X		12.1		1 1/2	0			
5	X		6.6		1 1/2	0			

CALC		REVISED	DATE
CHECK	S. Michalski	1-19-67	
APPD			
APPD			

C/S
A3-555
D6-1084
D6-6250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE									
IDENTIFICATION: Nomex ST-4084-2		MAT'L TYPE Upholstery Fabric		NML 4580					
IDENTIFICATION COLOR CODE, BAC NO.		MATERIAL Nomex							
MANUFACTURER Collins & Aikman		PROPOSED USE Seat Covering							
TEST METHODS AND REQUIREMENTS BMS 8-60		Shall extinguish within 90 seconds before and after dry cleaning. Char length shall not exceed 5 inches.							
DEVIATION FROM TEST METHOD Dry cleaned three times.									
SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.		AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
		VERT.	HORIZ.						
Warp									
1	X			3.4	3 1/2	2	1 1/2		Moderate smoke. No melting or dripping. NOTE: "Burned Length" refers to the length that was charred or damaged by the flame.
2	X			26.0	5 3/4	4	1 1/2		
3	X			4.6	4	2	1 1/2		
4	X			4.0	4 1/2	3	1 1/2		
5	X			3.9	3 3/4	2	1 1/2		
6	X			4.9	3 1/2	2	1 1/2		
7	X			10.6	3 1/2	2	1 1/2		
Fill									
1	X			4.3	3 3/4	2	1 1/2		
2	X			1.2	3 1/2	2	1 1/2		
3	X			1.3	3 1/4	2	1 1/2		
4	X			4.1	3 1/4	1	3/4		
5	X			5.8	2 1/2	1	1 1/2		
6	X			3.4	3 1/2	2	1 1/2		
7	X			4.7	4	2	1 1/2		

CALC		REVISED	DATE
CHECK	S. Michalski	1-19-67	
APPD			
APPD			

C/S	A3-555
	D6-1084
	D6-6250TN
PAGE	

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Homex ST-1084-2 MAT'L TYPE Upholstery Fabrics EML 4580
 IDENTIFICATION COLOR CODE, BAC NO. MATERIAL Homex
 MANUFACTURER Collins & Aikman PROPOSED USE Seat Covering

TEST METHODS AND REQUIREMENTS BMS 8-60

Shall extinguish within 90 seconds before and after dry cleaning. Char length shall not exceed 5 inches.

DEVIATION FROM TEST METHOD

Dry cleaned three times.

CALC		REVISED	DATE
CHECK	B. Michalski	1-19-67	
APFD			
APPS			

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Warp									
1	X		0.9		0.6-0.9	0.6-0.9			Moderate smoke. No melting or dripping. NOTE: "Burned Length" refers to the length that was charred or damaged by the flame.
2	X		1.1						
3	X		0.9						
4	X		0.9						
5	X		1.0						
6	X		0.8						
7	X		0.7						
Fill									
1	X		1.1						
2	X		1.1						
3	X		0.7						
4	X		0.7						
5	X		0.8						
6	X		1.0						
7	X		0.9						

C/S
 A3-555
 D6-1084
 D6-6250TH
 Page

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE									
IDENTIFICATION		Nomex No. 4084-2		MAT'L TYPE		Upholstery Fabric		KML 4580	
IDENTIFICATION COLOR CODE, BAC NO.		Collins & Aikman		PROPOSED USE		Seat Covering		MATERIAL Nomex	
TEST METHODS AND REQUIREMENTS		BMS 8-60		Shell extinguish within 90 seconds before and after dry cleaning. Char length shall not exceed 5 inches.					
DEVIATION FROM TEST METHOD									
SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Warp									
1	X		0.4		1/2	1/2			Burned length due to ignition. Moderate smoke. No melting or dripping. NOTE: "Burned Length" refers to the length that was charred, or damaged, by the flame.
2	X		2.5		1/2	1/2			
3	X		0.7		1/2	1/2			
4	X		5.4		1/2	1/2			
5	X		0.9		1/2	1/2			
Fill									
1	X		4.0		1/2	1/2			
2	X		3.0		1/4	1/4			
3	X		3.7		1/4	1/4			
4	X		3.8		1/4	1/4			
5	X		3.9		1/4	1/4			

CALC		REVISED	DATE	
CHECK	G. Michalski	1-19-67		
APPD				
APPD				

C/S
A3-555
D6-1084
D6-6250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE										
IDENTIFICATION		Uncoated ST-4090-1		MAT'L TYPE Upholstery Fabric		RML 4580				
IDENTIFICATION COLOR CODE, BAC NO.				MATERIAL Dymel and Nylon		PROPOSED USE Seat Covering				
MANUFACTURER		Collins & Aikman		TEST METHODS AND REQUIREMENTS		BMS 8-60				
DEVIATION FROM TEST METHOD		Shall extinguish within 90 seconds before and after dry cleaning. Char length shall not exceed 5 inches.								
SAMPLE NO.	MATERIAL POSITION	VERT.	HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Warp										
1	X			46.3		1 1/4				Heavy smoke, melting, no dripping and slight odor. Burn length due to ignition.
2	X			15.7		1 1/4				
3	X			74.9		1/2				
4	X			8.5		1 1/4				
5	X			60.1		1 1/4				
6	X			58.8		1/2				
Fill										
1	X			8.0						Heavy smoke, melting, no dripping and slight odor. Burn length due to ignition.
2	X			94.1		3/4				
3	X			76.6		1 1/4				
4	X			54.4		1 1/4				
5	X			32.5		1 1/4				
6	X			51.0		1 1/4				

APPD		REVISD	DATE
CHECK	S. Michalski	1-19-67	
CALC			

C/S
A3-555
D6-1084
D6-6250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE								
IDENTIFICATION	Uncoated ST-4090-1	MAT'L TYPE Upholstery Fabric	BML 4580					
IDENTIFICATION COLOR CODE, BAC NO.		MATERIAL	Dynel and Nylon					
MANUFACTURER	Collins & Aikman	PROPOSED USE	Seat Covering					
TEST METHODS AND REQUIREMENTS	BMS 8-60 Shall be self-extinguishing within 90 seconds before and after dry cleaning. Maximum char length; 5 inches.							
DEVIATION FROM TEST METHOD								
SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Warp								
1	X			10		47.3	12.7	Heavy smoke, melting, no dripping and slight odor. NOTE: "Burned Length" is defined as the length that was charred or damaged by the flame.
2	X			10		45.7	13.1	
3	X			10		53.0	11.3	
4	X			10		68.8	8.7	
5	X			10		52.9	11.3	
Fill								
1	X	26.5		4.25	4.25	73.9	8.1	
2	X			10				
3	X	21.9		3.5	3.5			
4	X			10		73.4	8.2	
5	X			10		69.2	8.7	

CALC		REVISED	DATE
CHECK	S. Michalaki	1-19-67	
APPD			
APPD			

C/S
 A3-555
 D6-1084
 D6-6250TH
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE									
IDENTIFICATION		Textile 2209		MAT'L TYPE		Upholstery Fabric		EML 5479	
IDENTIFICATION COLOR CODE, BAC NO.		Light Blue		MATERIAL		Wool			
MANUFACTURER		Not Known. Used by Qantas.		PROPOSED USE		Attendant Seats.			
TEST METHODS AND REQUIREMENTS Proposed BMS 8-60.									
Shall extinguish within 90 seconds when tested in the horizontal and vertical positions. Char length shall not exceed 5 inches.									
DEVIATION FROM TEST METHOD									
SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Fill									
1	X		11.5	0	1.0	1.0			
2	X		48.0	0	1.6	1.7			
3	X		18.1		1.2	1.3			
4		X			10		31.8	18.9	
5		X			10		31.8	18.9	
6		X			10		33.6	17.9	
Warp									
1	X		22.8	0	.9	.9			
2	X		22.8	0	1.0	1.1			
3	X		16.2	0	.8	.9			
4		X			10		37.8	16.0	
5		X			10		37.2	16.1	
6		X			10		36.6	16.4	

Little smoke. Material bubbled in the flame area. Friable char.

BY	Michalski	1-19-67	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
A3-560
D6-1084
D6-6250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Textile 1533 MAT'L TYPE Upholstery Fabric KML 5479

IDENTIFICATION COLOR CODE, BAC NO. Blue-Green Stripe MATERIAL Wool

MANUFACTURER Not Known. Used by Qantas. PROPOSED USE Attendant Seats

TEST METHODS A1D

REQUIREMENTS Proposed BMS 8-60

Shall extinguish within 90 seconds when tested in the horizontal and vertical position.
Char Length shall not exceed 5 inches.

DEVIATION FROM TEST METHOD

APPROVED	REVISIONS	DATE
Michalski	1-19-67	
CHECK		
APPD		
APPD		

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER CLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Warp									
1		X	19.2	0	1.0	1.0			
2		X	13.2	0	1.5	1.5			
3		X	22.2	0	1.5	1.5	22.2	27.0	
4	X				10	10	19.8	30.2	
5	X				10	10	21.6	27.8	
6	X				10	10			
Fill									
1		X	20.4	0	1.0	1.0			
2		X	25.1	0	1.0	1.0			
3		X	25.1	0	1.1	1.1	21.0	28.6	
4	X				10	10	21.6	27.8	
5	X				10	10	21.6	27.8	
6	X				10	10			

Little smoke. Material bubbled in the flame area. Friable char.

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

RML 7469

MAT'L TYPE Textile

IDENTIFICATION Orinoka Drapery #20017


IDENTIFICATION COLOR CODE, BAC NO. Blue/yellow/lavender stripe MATERIAL 100% Verel

MANUFACTURER Orinoka mills

PROPOSED USE Drapery

TEST METHODS AND D6-8099

REQUIREMENTS ; FAA: Material shall be self-extinguishing in warp and fill directions when tested in the vertical and horizontal positions. Char length shall not exceed eight inches in the vertical position and four inches in the horizontal.

DEVIATION FROM TEST METHOD  Laundered five times

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES		CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.			INCHES	SECS.				
W-1		x	0	0	0.75	0	0			Horizontal position Self-extinguishing from 0-3 seconds. Char length from 0 to 1.5 inches
W-2		x	0	0	1.50	1.50				
F-1		x	3.0	0	1.50	1.25				Vertical position Self-extinguishing from 2.7 to 7.3 seconds. Char length from 2.0 to 4.25 inches.
F-2		x	0	0	3.50	1.00				
W-1		x	2.7	0	5.00	4.25				Moderate amount of smoke evolved. Melting but no dripping occurred Sharp pungent odor.
W-2		x	4.7	0	4.00	3.00				
F-1		x	7.3	0	4.00	3.00				
F-2		x	3.6	0	3.00	2.00				

CALC	R. Forte	12/4	REVISED	DATE
CHECK				
APPD				
APPD				

c/s 4-611
06-1084
06-6250 TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

ML 7469

MAT'L TYPE Textile

Orinoka Drapery #20017

IDENTIFICATION COLOR CODE, BAC NO. Blue/yellow/lavender stripe MATERIAL 100% Verel

MANUFACTURER Orinoka Mills

PROPOSED USE Drapery

TEST METHODS AND FAA Requirements

REQUIREMENTS: Material shall be self-extinguishing in warp and fill directions when tested in the vertical and horizontal positions. Char length shall not exceed eight inches in the vertical position and four inches in the horizontal.

DEVIATION FROM TEST METHOD

△ Dry cleaned three times

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
W-1	X	9.0	1.5	2.0	1.5			Horizontal position Self-extinguishing from 0-9 seconds Char length from 0-1.75 inches
W-2	X	1.2	1.75	2.0	1.75			
F-1	X	0	1.0	.75	0			Vertical Position Self-extinguishing from 0.7 to 5.6 seconds. Char length from 0.75 to 6.5 inch.
F-2	X	4.9	1.0	1.00	0			
W-1	X	2.6	3.75	8.5	6.5			Moderate amount of smoke evolved. Melting but no dripping occurred Sharp pungent odor.
W-2	X	2.1	3.0	2.5	.75			
F-1	X	0.7	3.5	3.5	2.0			
F-2	X	5.6	2.75	3.5	2.25			

CALC	R. Forte	12/4	REVISED	DATE
CHECK				
APPD				
APPD				

8/8
D6-1084
D6-6250
PAGE

TN

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Orinoka Drapery #20017 1 MAT'L TYPE Textile MML 7469
 IDENTIFICATION COLOR CODE, BAC NO. Blue/yellow/lavender MATERIAL 100% Verel
 MANUFACTURER Orinoka Mills PROPOSED USE Drapery

TEST METHODS AND D6-8099
 REQUIREMENTS F.A.A. Requirements: Material shall be self-extinguishing in warp and fill directions when tested in the vertical and horizontal positions. Char length shall not exceed eight inches in the vertical position and four inches in the horizontal.

DEVIATION FROM TEST METHOD 1 As Received.

CALC	R. Forte	12/4	REVISED	DATE
CHECK				
APPD				
APPD				

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
W-2			0	0	0.75	0.50			
W-3			0	0	1.0	1.00			
F-1			0	0	0.75	0.25			
F-2			0	0	1.50	0.50			
F-3			0	0	0.50	0.50			
W-1	X		8.9	0	4.00	3.00			Vertical position- Self-extinguishing from 0 to 8.9 seconds. Char length from 2.0 to 4.0 inches.
W-2	X		1.5	0	3.25	3.00			
W-3	X		7.0	0	4.50	4.00			
F-1	X		7.6	0	3.25	2.90			
F-2	X		0	0	2.25	2.00			Moderate amount of smoke evolved. Melting but no dripping occurred. Sharp pungent odor.
F-3	X		5.8	0	4.50	2.75			

7-66
 D6-1084
 D6-6250-TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Drapery Fabric #19962 MAT'L TYPE Textile BML

IDENTIFICATION COLOR CODE, BAC NO. Color No. 2408 Turquoise MATERIAL Not known

MANUFACTURER Orinoka Mills PROPOSED USE Drapery

TEST METHODS AND REQUIREMENTS

Test Method: BMS 8-59

Requirement: Shall extinguish in two seconds or less

DEVIATION FROM TEST METHOD

CALC		REVISED	DATE
CHECK			
APPD			
APPD			

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Warp									
1	X		0		1.0	0.75			Horizontal and Vertical: Moderate white smoke evolved.
2	X		0		1.5	0.75			
3	X		0		1.0	1.0			
Fill									
1	X		0		1.0	0.75			
2	X		0		1.0	0.75			
3	X		0		1.0	0.75			
Warp									
1	X		1	1	3.37	4.0			
2	X		1	1	3.75	3.25			
3	X		1	1	4.0	3.75			
Fill									
1	X		0	1	4.0	4.0			
2	X		2	1	4.75	4.75			
3	X		0	1	3.5	3.5			

D6-1084
D6-6250TA

PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Collins and Aikman Upholstery 58/1208 ^{Galaxy} MAT'L TYPE Textile EML 7072

IDENTIFICATION COLOR CODE, BAC NO. BAC 535 Blue-Green MATERIAL

MANUFACTURER Collins and Aikman PROPOSED USE Seat Covering

TEST METHODS AND REQUIREMENTS BMS 8-60

DEVIATION FROM TEST METHOD Tested in horizontal position only.

CALC	<i>R. F. Feltz</i>	REVISED	DATE
CHECK			
APPD			
APPD			

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Fill									
1	X		336.6	0	8.50	7.00			Slight amount of smoke evolved.
2	X		104.5	0	3.25	1.50			No dripping observed.
3	X		70.2	0	2.50	0.75			Melting and noticeable odor occurred.
Warp									
1	X		57.1	0	2.25	0.50			
2	X		29.9	0	2.00	0.25			
3	X		51.9	0	2.50	0.50			

4-2.7
06-1084
06-6250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

EWL 7072

IDENTIFICATION Craftex No. K 8383 Upholstery MAT'L TYPE Textile

IDENTIFICATION COLOR CODE, BAC NO. Color No. 972, Blue-Green MATERIAL

MANUFACTURER Craftex Mills, Inc. PROPOSED USE Seat Covering

TEST METHODS AND REQUIREMENTS BMS 8-60

DEVIATION FROM TEST METHOD Tested in the horizontal position only.

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Fill 1 2 3	X	37.9	0	1.50	0			Slight amount of smoke evolved. No drippings. Slight amount of melting.
	X	52.8	0	2.50	0.50			
	X	49.4	0	2.25	0.50			
Warp 1 2 3	X	36.8	0	1.50	0			Slight amount of smoke evolved. No drippings. Slight amount of melting.
	X	43.6	0	1.50	0			
	X	51.8	0	1.75	0.25			

CALC	<i>R. Fritz</i>	REVISED	DATE
CHECK			
APPD			
APPD			

4-217
D6-1084
D6-6250TH
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION	Upholstery Fabric	MAT'L TYPE	Textile Products	NML	7029
IDENTIFICATION COLOR CODE, BAC NO.		MATERIAL			
MANUFACTURER	Craftex Mills, Inc.	PROPOSED USE	Passenger Seat Covering		
TEST METHODS AND REQUIREMENTS	<p>Test Method: Proposed BMS 8-60. Requirement: Shall extinguish in 13 seconds or less before and after three dry cleanings and three laundrerings.</p>				
DEVIATION FROM TEST METHOD	<p>1 Tested "as received". Weight: 23 oz/yd. sq. 2 49% Cotton, 4% Acrylic, 28% Rayon, 2% other and 100% Acrylic Backing.</p>				

CALC	S. Michalski	0/2	REVISED	DATE
CHECK				
APPD				
APPG				

SAMPLE NO.	MATERIAL POSITION	VERT.	HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
1	X			0	0	2.50	1.75			Horizontal and Vertical: Slight smoke evolved. No melting or dripping.
2	X			0	0	2.50	1.50			
3	X			0	0	3.00	2.00			
1		X		0	0	0.75	0.25			
2		X		0	0	0.75	0.25			
3		X		0	0	0.75	0.25			
Fill										
1	X			0	0	3.25	2.00			
2	X			0	0	2.25	1.75			
3	X			0	0	2.50	1.75			
1		X		0	0	1.00	0.50			
2		X		0	0	0.75	0.25			
3		X		0	0	1.00	0.75			

C/S
 6-7612-4-118
 06-1084
 06-6250TW
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Upholstery Fabric **1** MAT'L TYPE Textile Products **BML 7029**

IDENTIFICATION COLOR CODE, BAC NO. MATERIAL **2**

MANUFACTURER Craftex Mills, Inc. PROPOSED USE Passenger Seat Covering

TEST METHODS AND REQUIREMENTS
 Test Method: Proposed BMS 8-60.
 Requirement: Shall extinguish in 13 seconds or less before and after three dry cleanings and three launderings.

DEVIATION FROM TEST METHOD
1 Tested after three washings and rinsings in 125-160F water. Mild soap used during the washing cycle.
2 49% cotton, 4% Acrylic, 28% Rayon, 2% Others and 100% Acrylic Backing.

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Warp								
1	X			10.00	10.00	58.9	10.2	Horizontal and Vertical: Slight to moderate smoke evolved, No melting or dripping.
2	X			10.00	10.00	93.0	6.5	
3	X			10.00	10.00	77.8	7.7	
1	X	23.6	0	1.00	1.00			
2	X	29.3	0	1.25	1.00			
3	X	28.1	0	1.50	1.25			
Fill								
1	X			10.00	10.00	75.4	7.9	
2	X			10.00	10.00	77.6	7.7	
3	X	42.9	0	7.5	6.50			
1	X	21.2	0	1.00	1.00			
2	X	28.1	0	1.00	1.00			
3	X	31.6	0	1.25	1.25			

CALC	S. Michalski	9/21	REVISED	DATE
CHECK				
APPD				
APPD				

6/S
 6-7612-4-118
 D6-1084
 D6-6250 TM
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION	Drapery	MAT'L TYPE	Textiles	MML
IDENTIFICATION COLOR CODE, BAC NO.	Green	MATERIAL	Verel with gold Saran thread	
MANUFACTURER	Orinoka Mills	PROPOSED USE	Drapery	
TEST METHODS AND REQUIREMENTS	BMS 8-59A			
	Shall be self-extinguishing in two seconds in both warp (W) and fill (F) directions when tested in vertical position.			
DEVIATION FROM TEST METHOD	Twelve Specimens tested.			
	Orinoka Mills, Pattern #20065, Color #2284 Green, Verel 94%, Metal 6%, Weighs 11.84 oz. per square yard.			

CALC	S. Michalski	9/27/81	REVISED	DATE	
CHECK					
APPD					
APPD					

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
F1	V		6.5		5.5	4.5			Extinguishing time 0 - 11.0 seconds.
F2	V		9.5		5.25	4.0			
F3	V		6.0		4.25	4.0			
F4	V		0		3.0	2.75			
F5	V		1.0		4.5	4.0			
F6	V		1.0		3.0	2.5			
F7	V		11.0		6.0	5.0			
F8	V		0		3.5	3.25			
F9	V		3.0		2.0	1.75			
F10	V		9.0		5.5	5.0			
F11	V		2.0		3.0	2.5			
F12	V		9.0		5.5	4.75			

C/S
6-7612-4-141
D6-1084
D6-6250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Drapery 1 MAT'L TYPE Textiles MML
 IDENTIFICATION COLOR CODE, BAC NO. Green MATERIAL Verel with gold Saran thread
 MANUFACTURER Orinoka Mills PROPOSED USE Drapery

TEST METHODS AND REQUIREMENTS BMS 8-59A

Shall be self-extinguishing in two seconds in both warp (W) and fill (F) directions when tested in vertical position.

DEVIATION FROM TEST METHOD Twelve specimens tested.

1 Orinoka Mills, Pattern #20065, Color #2284, Green, Verel 94%, Metal 6%, Weights 11.84 oz. per square yard.

SAMPLE NO.	MATERIAL POSITION VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
W1	V	2.5		4.25	3.5			Extinguishing time 0 - 9.5 seconds. Burn rate of two specimens 19.3 and 15.8 in./min.
W2	V	7.0		5.25	3.75			
W3	V	2.0		5.0	4.0			
W4	V	1.0		5.0	4.0			
W5	V	0		4.5	4.0	31	19.3	
W6	V			10.0				
W7	V	6.5		4.0	3.0			
W8	V	0		4.0	2.75			
W9	V	0		4.25	2.75			
W10	V			10		38	15.8	
W11	V	9.5		5.0	4.5			
W12	V	6.0		5.5	3.75			

CALC	S. Michalski	9/27/66	DATE
CHECK			
APPD			
APPD			

C/S
 6-7612-4-141
 06-1084
 06-6250TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Drapery 1 MAT'L TYPE Textiles BML
 IDENTIFICATION COLOR CODE, BAC NO. White MATERIAL Verel with gold Saran thread
 MANUFACTURER Orinoka Mills PROPOSED USE Drapery

TEST METHODS AND REQUIREMENTS BMS 8-59A

Shall be self-extinguishing in two seconds in both warp (W) and fill (F) directions when tested in the vertical position.

DEVIATION FROM TEST METHOD Eleven specimens tested.

1 Orinoka Mills Pattern #20065, Color #2286 White, Verel 94%, Metal 6%, Weighs 11.84 oz. per square yard.

SAMPLE NO.	MATERIAL POSITION	VERT.	HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
1	V			0		5.0	4.75			Extinguishing time 0-1.5 seconds. Burn rate of two specimens 20.7 and 17.1 in./min.
2	V			1.0		4.25	3.75			
3	V			1.5		3.75	3.00			
4	V			1.5		4.50	4.00			
5	V			1.0		3.75	3.00			
6	V			1.5		3.25	2.75	29	20.7	
7	V					10				
8	V			1.5		5.5	2.5			
9	V			1.0		3.25	2.25			
10	V			1.0		3.00	2.25			
11	V					10		35	17.1	

CALC	S. Michalski	9/27/67	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
6-7612-4-141
06-1084
06-6250TW
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

EML

MAT'L TYPE Textiles

Drapery

MATERIAL, Verel with gold Saran thread

White

IDENTIFICATION COLOR CODE, BAC NO.

PROPOSED USE Drapery

MANUFACTURER Orinoka Mills

TEST METHODS AND REQUIREMENTS BMS 8-59A

Shall be self-extinguishing in two seconds in both warp (W) and fill (F) directions when tested in the vertical position.

DEVIATION FROM TEST METHOD Eleven specimens tested.

Orinoka Mills, Pattern #20065, Color #2286 White, Verel 94%, Metal 6%, Weights 11.84 oz. per square yard.

COMMENTS

Extinguishing time 0-10 seconds.

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CALC	S. Michalak	9/27/66	REVISED	DATE

SAMPLE NO.	MATERIAL POSITION: VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Fill								
1	V	0		4.0	3.5			
2	V	10		5.0	4.0			
3	V	9		6.0	5.0			
4	V	10		4.75	4.0			
5	V	3		3.5	3.0			
6	V	4		3.75	3.0			
7	V	4		3.75	3.0			
8	V	0		3.25	3.0			
9	V	7		4.0	3.5			
10	V	0		5.0	4.5			
11	V	2		3.5	3.0			

C/8
6-7612-4-141
D6-1084
D6-6250TM
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE									
IDENTIFICATION		AMERICAN AIRLINE DRAPERY FABRIC ¹		MAT'L TYPE		TEXTILE		EML 7132	
IDENTIFICATION COLOR CODE, BAC NO.		GOLD/BEIGE STRIPE		MATERIAL		100% NYLON			
MANUFACTURER		COLLINS AND AIKMAN		PROPOSED USE		DRAPERY			
TEST METHODS AND REQUIREMENTS		BMS 8-59A							
DEVIATION FROM TEST METHOD		Samples tested in horizontal position also.							
1		Collins and Aikman, Pattern ST 4595-1, Gold/Beige Stripe, Weight 12.3 oz. per sq. yard							
SAMPLES TESTED AFTER ONE DRY CLEANING									
SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS	
Warp 1 2 3	X	34.1	0	6.50	6.50	6.50		Slight amount of smoke evolved. Excessive melting and dripping. Drippings burned.	
	X	37.2	0	6.75	6.75	6.75			
	X	34.6	0	5.75	5.75	5.75			
1 2 3		47.7	0	2.50	2.50	2.50			
		97.9	0	4.00	4.00	4.00			
		24.1	0	1.25	1.25	1.25			
Fill 1 2 3	X	39.1	0	6.50	6.50	6.50			
	X	36.1	0	5.50	5.50	5.50			
	X	35.0	0	6.50	6.50	6.50			
1 2 3		118.1	0	4.00	4.00	4.00			
		69.9	0	4.25	4.25	4.25			
		56.1	0	3.00	3.00	3.00			

CALC		REVISED	DATE
CHECK			
APPD			
APPD			

6-102
D6-1084
D6-6250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION AMERICAN AIRLINE DRAPERY FABRIC ¹ MAT'L TYPE TEXTILE EML 7131
 IDENTIFICATION COLOR CODE, BAC NO. GOLD/BEIGE STRIPE MATERIAL 100% NYLON
 MANUFACTURER COLLINS AND AIKMAN PROPOSED USE DRAPERY

TEST METHODS AND REQUIREMENTS

FMS 8-59A

DEVIATION FROM TEST METHOD

Samples tested in horizontal position also.


- 1 Collins and Aikman, Pattern ST 4595-1, Gold/Beige Stripe, Weight 12.3 oz. per sq. yard.

SAMPLES TESTED BEFORE DRY CLEANING (AS RECEIVED)

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Warp								
1	X	36.7	0	5.00	5.00			Slight amount of smoke evolved. Excessive melting and dripping. Drippings burned.
2	X	38.7	0	5.50	5.50			
3	X	42.0	0	5.00	5.00			
1	X	22.1	0	1.25	1.25			
2	X	25.1	0	1.50	1.50			
3	X	13.7	0	1.30	1.30			
Fill								
1	X	32.8	0	4.25	4.25			
2	X	38.5	0	4.50	4.50			
3	X	32.0	0	5.00	5.00			
1	X	65.6	0	2.00	2.00			
2	X	0	0	0.75	0.75			
3	X	105.3	0	3.75	3.75			

CALC		REC	SED	DATE
CHECK				
APPD				
APPD				

4-18
 D6-1084
 D6-6250TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE				
IDENTIFICATION		MAT'L TYPE Textile		
Timme Upholstery		EML 7617		
IDENTIFICATION COLOR CODE, BAC NO.		PROPOSED USE		
Honolulu Russet Orange		Seat Covering for Aloha Airlines		
MANUFACTURER		MATERIAL		
E. P. Timme				
TEST METHODS AND REQUIREMENTS				
BMS 8-60, Section 4.4. Materials shall be self-extinguishing within 13 seconds when tested in the horizontal and vertical positions. Materials shall not give off an excessive amount of irritating fumes or smoke. FAR 25.853(b), The average burn rate of materials must not exceed 4 inches per min. when tested in the horizontal position.				
<p>  Color No. TSD 5590-1 AOT RM No. 57064 </p>				
SAMPLE NO.	MATERIAL POSITION		BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.		
1-W	X		1.54	Horizontal position: Burn rate from 1.40 to 1.63 in/min. Heavy black smoke evolved with nauseous fumes. Melting occurred. Vertical Position: Burn rate from 27.2 to 33.3 in/min. Heavy black smoke evolved with nauseous fumes. Melting occurred.
2-W	X		1.93	
3-W	X		1.61	
1-F	X		1.46	
2-F	X		1.60	
3-F	X		1.51	
1-W		X	33.3	
2-W		X	27.2	
3-W		X	33.3	
1-F		X	31.0	
2-F		X	30.0	
3-F		X	30.0	

CALC		REVISED	DATE
CHECK	R. Forte	2-2-68	
APPD			
APPD			

c/s6-7612-
 4-1086
 D6-1084
 D6-6250 IN
 PAGE

67

TEST REPORT DATA SHEET

MANUFACTURER E. F. Timme & Son Inc.
 CODE TSD 453-1 Bismark Quality
 MATERIAL Sec. 1 and 2

MATERIAL TYPE Upholstery
 # 918, Coral Pink
 PROPOSED USE Seat Covering

EXPLANATORY INFORMATION:

1. Untreated
2. Treated with flame retardent backing by California Flameproofing.

CHARACTERISTIC	TEST METHOD	DEVIATION FROM TEST METHOD	REQUIREMENT	RESULTS																			
Surface flammability	ASTM E-162 Radiant Panel Test			<table border="1"> <thead> <tr> <th colspan="2">MATERIAL</th> </tr> <tr> <th>1</th> <th>2</th> </tr> </thead> <tbody> <tr> <td>Flame Spread Index, I_s Average</td> <td>519</td> <td>178</td> </tr> <tr> <td>Range</td> <td>389-746</td> <td>43-340</td> </tr> <tr> <td>Heat Factor, Q</td> <td>22</td> <td>14</td> </tr> <tr> <td>Flame Spread Factor, F_s</td> <td>24</td> <td>12</td> </tr> <tr> <td>Smoke Deposit, mg.</td> <td>2.5</td> <td>4.0</td> </tr> </tbody> </table>	MATERIAL		1	2	Flame Spread Index, I _s Average	519	178	Range	389-746	43-340	Heat Factor, Q	22	14	Flame Spread Factor, F _s	24	12	Smoke Deposit, mg.	2.5	4.0
				MATERIAL																			
				1	2																		
				Flame Spread Index, I _s Average	519	178																	
Range	389-746	43-340																					
Heat Factor, Q	22	14																					
Flame Spread Factor, F _s	24	12																					
Smoke Deposit, mg.	2.5	4.0																					
<ol style="list-style-type: none"> 1. Rapidly advancing flame 2. Some flashing up to 6 inches Surface bubbling. Heavy white smoke. 																							
Weight				<ol style="list-style-type: none"> 1. 14.45 oz/yd² 2. 21.83 oz/yd² 																			

CALC		REVISED	DATE
CHECK	R. Forte	1-10-68	
APPD			
APPD			

c/s6-762-4
 1055
 6-1084
 6-6250TN
 PAGE

66

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE		IDENTIFICATION		Timme Upholstery TSD 4531-1		MATERIAL		Textile		MML 7960		
IDENTIFICATION		Bismark		MAT'L TYPE		MATERIAL		Textile		MML 7960		
IDENTIFICATION COLOR CODE, BAC NO.		BAC#918		CORAL PINK		MATERIAL		Textile		MML 7960		
MANUFACTURER		E. F. Timme & Son Inc.		PROPOSED USE		Seat Covering						
TEST METHODS AND REQUIREMENTS		Backing: California Flame proofing D6-8099										
DEVIATION FROM TEST METHOD		1		Nylon fabric with flame retardent back coating. Coating applied by California Flameproofing & Processing Co.								
SAMPLE NO.	MATERIAL POSITION	VERT.	HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS		
												W-1
		x		9.1	0	6.50	1.50			Self-extinguishing 3.5 - 36.5 sec. Melting, no dripping.		
		x		3.6	0	5.75	2.00					
		x		7.5	0	6.50	2.25					
		x		23.5	0	7.50	4.00			Heavy amount of smoke. Slight odor.		
		x		3.5	0	4.50	1.50					
		x		34.0	0	7.25	1.00					
			x	25.7	0	0.75	0.25					
		x	x	21.9	0	0.75	0.25					
		x	x	24.1	0	0.75	0.50					
		x	x	19.4	0	1.00	0.50					
		x	x	34.7	0	1.00	0.50					
		x	x	36.5	0	1.00	0.50					

CALC		REVISED	DATE	
CHECK	R. Forte	1-10-68		
APPD				
APPD				

6/s6-7612-4
1055
D6-1084
D6-6250 TN
PAGE


TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Timme Upholstery TSD 4531-1 Bismarck's L TYPE Textile **FML**
 IDENTIFICATION COLOR CODE, BAC NO. BAC #918, Coral Pink MATERIAL

MANUFACTURER E. F. Timme and Son Inc. PROPOSED USE Seat Covering

TEST METHODS AND REQUIREMENTS D6-8099

DEVIATION FROM TEST METHOD

 Nylon Fabric - NO. Flame Retardant Back Coating

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
W-1	x						28	21.5	Very large flame Little to moderate smoke.
W-2	x						28	21.5	
F-1	x						22	27.3	Moderate Flame. Little to moderate smoke melting but no dripping.
W-1		x					285	2.1	
W-2		x					280	2.13	
F-1		x					284	2.1	
F-2		x					281	2.13	

CALC		REVISED	DATE
CHECK	R. Forte	1-10-88	
APPD			
APPD			

c/86-7612-4
 1055
 06-1084
 06-6250T
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Boris Kroll Upholstery Space B-4 MAT'L TYPE Textile BML 7716

IDENTIFICATION COLOR CODE, BAC NO. Aqua #9224 MATERIAL Nylon Face Yarns

MANUFACTURER Boris Kroll Fabrics PROPOSED USE Seat Covering

TEST METHODS AND BMS 8-60, Section 7.2 BMS 8-60, Section 4.4 Materials shall be self-REQUIREMENTS extinguishing within 13 seconds in both warp and fill directions before and after at least three commercial dry cleanings and after at least three launderings when tested in the horizontal and vertical positions. The maximum char length shall be 8 inches and the average char length shall not exceed 6 inches in the vertical position. The maximum char length shall not exceed 4 inches in the horizontal position.

DEVIATION FROM TEST METHOD
 tested only "as received".

ALC	R. Forte	1/9/68	REVISED	DATE
CHECK				
APPD				
APPD				

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1		X			10		697.3	0.86	Horizontal position: Burn rate from 0.79 to 0.99 inches/minute. Small amount of smoke evolved. Melting, no dripping. Vertical position: Burn rate from 15.9 to 16.4 inches/minute. Small amount of smoke evolved. Melting, no dripping.
2		X			10		625.2	0.96	
3		X			10		607.4	0.99	
1		X			10		673.4	0.89	
2		X			10		754.8	0.79	
3		X			10		708.4	0.85	
1	X				10		37.0	16.2	
2	X				10		37.4	16.0	
1	X				10		37.7	15.9	
2	X				10		37.0	16.2	
3	X				10		36.6	16.4	

7-6712-4
 1053
 D6-1084
 D6-62507N
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Boris Kroll Upholstery, Space B-2 MAT'L TYPE Textile ML 7716

IDENTIFICATION COLOR CODE, BAC NO. Gold #9924 MATERIAL Nylon Face Yarns

MANUFACTURER Boris Kroll Fabrics PROPOSED USE Seat Covering

TEST METHODS AND REQUIREMENTS BMS 8-60, Section 7.2 BMS 8-60, Section 4.4 Materials shall be self-extinguishing within 13 seconds in both warp and fill directions before and after at least three commercial dry-cleanings and after at least three launderings when tested in the horizontal and vertical positions. The maximum char length shall be 8 inches and the average char length shall not exceed 4 inches in the horizontal position. The char length shall not exceed DEVIATION FROM TEST METHOD

Tested only "as received".

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1	X				10		558.4	0.91	Horizontal position; Burn rate from 0.82 to 0.94 inches/minute. Mod. amount of smoke evolved. Melting, no dripping. Vertical position: Burn rate from 15.8 to 20.8 inches/minute. Mod. amount of smoke evolved. Melting, no dripping.
2	X				10		576.1	0.89	
1	X				10		729.3	0.82	
2	X				10		636.0	0.94	
3	X				10		544.8	0.93	
1		X			10		34.4	17.5	
2		X			10		35.4	16.9	
3		X			10		38.0	15.8	
1		X			10		28.8	20.8	
2		X			10		34.8	17.2	
3		X			10		34.9	17.2	

CALLC	R. Forte	1/9/58	REVISED	DATE
CHECK				
APPD				
APPD				

6-7612-4
1053
06-1084
06-6250T
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Firth Upholstery MAT'L TYPE Textile MATERIAL Wool 7613 BML

IDENTIFICATION COLOR CODE, BAC NO. Blue-Green PROPOSED USE Seat Covering

MANUFACTURER Firth (Britain)

TEST METHODS ~~XXX~~ - BMS 8-60, Section 7.2
 REQUIREMENTS - BMS 8-60, Section 4.4 Materials shall self-extinguish within 13 seconds in warp and fill directions when tested in horizontal and vertical positions. FAA 25.853 (b) Materials must not exceed a 4 inch per minute burn rate when tested in horizontal position.

DEVIATION FROM TEST METHOD
 Laundered three times.

CALC	R. Forte	12/26	REVISED	DATE
CHECK				
APPD				
APPD				

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
W-1	X		7.0		1.25	0.75			Horizontal Position: Self-extinguishing from 1.8 to 19.7 seconds. Small amount of smoke with characteristic odor of wool evolved. Melting and dripping occurred. Vertical Position: Burned from 23.1 to 35.3 inches per minute. Moderate amount of smoke evolved with heavy odor. Melting dripping occurred.
W-2	X		15.4		1.50	1.00	26.0	23.1	
W-3	X		1.8		1.00	0.50	20.8	28.9	
F-1	X		19.7		1.00	0.75	22.4	26.8	
F-2	X		16.2		1.50	1.00	17.0	35.3	
W-1		X		10.			17.0	35.3	
W-2		X		10.					
F-1		X		10.					
F-2		X		10.					
F-3		X		10.					

c/s6-7612-4-1045
 06-1084
 06-6250TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Firth Upholstery MAT'L TYPE Textile MML 7613

IDENTIFICATION COLOR CODE, BAC NO. Blue-Green MATERIAL Wool

MANUFACTURER Firth (Britlan) PROPOSED USE Seat Covering

TEST METHODS AND REQUIREMENTS BMS 8-60, Section 7.2
BMS 8-60, Section 4.4 Materials shall self-extinguish within 13 second in warp and fill directions when tested in horizontal and vertical positions. FAA 25.853 (b) Materials must not exceed a 4 inch per minute burn rate when tested in the horizontal position.

DEVIATION FROM TEST METHOD

Dry-cleaned three times.

CALC	R. Forte	12/26	REVISED	DATE
CHECK				
APPD				
APPD				

CAT-1
B-76

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER CLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
W-1	x		27.6		1.25	1.25			Horizontal position: Self-extinguishing from 11.8 to 27.9 seconds Moderate amount of smoke with heavy odor evolved. Melting, no dripping. Vertical position: Burns from 22.8 to 30.5 inches per minute. Moderate smoke with heavy odor evolved. Melting, no dripping.
W-2	x		11.8		1.25	0.75			
W-3	x		14.2		1.00	0.60			
F-1	x		27.9		1.00	1.00			
F-2	x		14.3		0.25	0.25			
F-3	x		16.4		0.50	0.50			
W-1		x			10.00		25.3	23.7	
W-2		x			10.00		19.7	30.5	
W-3		x			10.00		21.4	28.0	
F-1		xq			10.00		26.3	22.8	
F-2		x			10.00		24.7	24.3	
F-3		x			10.00		24.1	24.9	

C/86-7612-
4-1045
D6-1084
D6-6250IN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

MML 7429

IDENTIFICATION Firth Upholstery MAT'L TYPE Textile
 IDENTIFICATION COLOR CODE, BAC NO. Blue-Green MATERIAL Wool
 MANUFACTURER Firth (Britain) PROPOSED USE Seat Covering

TEST METHODS ~~XXX~~ -- BMS 8-60, Section 7.2
 REQUIREMENTS - BMS 8-60, Section 4.4 Materials shall self-extinguish within 13 seconds in warp and fill directions when tested in horizontal and vertical positions.

FAA 25.853 (b) Materials must not exceed a 4 inch per minute burn rate when tested in the horizontal position.

DEVIATION FROM TEST METHOD

Tested "as received"

CALC	R. Forte	12/26	REVISED	DATE
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SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
W-2	x		14.6	0	1.25	1.25			
W-3	x		14.8	0	0.75	0.75			
F-1	x		15.3	0	0.5	0.5			
F-2	x		19.4	0	0.5	0.5			
F-3	x		7.9	0	0.5	0.5			
W-1	x	x			10.		48.4	12.4	
W-2	x	x			10.		51.0	11.8	
W-3	x	x			10.		36.3	16.5	
F-1	x	x			10		39.2	15.3	
F-2	x	x			10		36.0	16.6	
F-3	x	x			10		41.2	14.5	

C/S 6-7612-4-1045
 D6-1084
 D6-6250TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

EML 7681

IDENTIFICATION Blue Stripe Upholstery, Pattern #19729 MAT'L TYPE Textile

IDENTIFICATION COLOR CODE, BAC NO. BAC 5153, Color #255 MATERIAL 60% Nylon, 40% Rayon

MANUFACTURER Orinoka Mills PROPOSED USE Seat Covering for Quebecair

TEST METHODS ~~MS~~ BMS 8-60, Section 7.2

REQUIREMENTS BMS 8-60 Section 4.4. Materials shall be self-extinguishing within 13 seconds in the horizontal and vertical positions.

F.A.R 25.853 (b). The average burn rate must not exceed 4 inches per minute when the material is tested in the horizontal position

DEVIATION FROM TEST METHOD

Tested after three launderings

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
W-1	X	19.2		0.6	0.6			Horizontal position: Self-extinguishing from 19.2 to 41.8 seconds. Heavy gray smoke evolved having strong and nauseous odor. Melting, no dripping. Vertical position: Five of six specimens burned from 8.57 to 10.22 inches per minute. Same flame characteristics as above.
W-2	X	27.0		0.9	0.9			
W-3	X	41.8		0.7	0.7			
F-1	X	37.2		1.1	1.1			
F-2	X	27.4		1.4	1.4			
F-3	X	31.0		1.6	1.6			
W-1	X			12.0		82.6	8.71	
W-2	X			12.0		78.6	9.16	
W-3	X	29.6		12.0	6.4	84.0	8.57	
F-1	X			7.9		70.4	10.22	
F-2	X			12.0		76.2	9.45	
F-3	X			12.0				

CALC	R. Forte	3/15	REVISED	DATE
CHECK				
APPD				
APPD				

D6-1084
D6-6250TN
5-7612-4
1399
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Blue Stripe Upholstery, Pattern #19729 MAT'L TYPE Textile MML 7681
 IDENTIFICATION COLOR CODE, BAC NO. BAC 5153, Color #255 MATERIAL 60% Nylon, 40% Rayon
 MANUFACTURER Orinoka Mills PROPOSED USE Seat Covering for Quebecair

TEST METHODS BMS 8-60, Section 7.2
 REQUIREMENTS BMS 8-60, Section 4.4. Materials shall be self-extinguishing within 13 seconds in horizontal and vertical positions.
 FAR 25.853 (b). The average burn rate must not exceed 4 inches per minute when the material is tested in the horizontal position.

DEVIATION FROM TEST METHOD

Tested after three dry-cleanings.

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
W-1	X			11.0		356.2	1.85	Horizontal position: Burn rate from 1.85 to 2.72 inches per minute. Heavy gray smoke evolved having strong and nauseous odor. Melting, no dripping. Vertical position; Burn rate from 16.5 to 18.8 inches per minute. Same flame characteristics as above.
W-2	X			11.0		355.0	1.86	
W-3	X			11.0		355.4	1.86	
F-1	X			11.0		295.0	2.24	
F-2	X			11.0		243.6	2.72	
F-3	X			11.0		265.2	2.49	
W-1	X			12.0		43.2	16.6	
W-2	X			12.0		38.8	18.6	
W-3	X			12.0		38.6	18.6	
F-1	X			12.0		41.6	17.3	
F-2	X			12.0		43.6	16.5	
F-3	X			12.0		38.2	18.8	

CALC	R. Forte	3/15	REVISED	DATE
CHECK				
APP'D				
APP'D				

D6-1084
 D6-6250TY
 6-7612-4
 1399
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

EML 8284

IDENTIFICATION J. L. Larson #850 Stripe Drapery MAT'L TYPE Textile

MATERIAL Nylon

IDENTIFICATION COLOR CODE, BAC NO. 5028

MANUFACTURER Jack L. Larson

PROPOSED USE Drapery

TEST METHODS AND D6-8099

REQUIREMENTS EMS 8-59A, Material shall be self-extinguishing in 2 sec. or less when tested vertically. Char length shall not exceed six inches.

FAR 25.853(a) Materials shall be self-extinguishing after flame removal when tested in vertical & horizontal positions. The average char length may not exceed 8 inches when tested vertically and 10 inches when tested horizontally.

DEVIATION FROM TEST METHOD

Four warp specimens tested vertically
Five fill specimens tested horizontally.

DRY CLEANED THREE TIMES

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Warp 1	x		18	0	2.3	2.3			Melting & Dripping amount Excessive 18-53.7 Moderate 0-18.7 Excessive 27.2-91.6 Moderate 14.6-46.2
Warp 2	x		46.6	0	5.8	5.8			
Warp 3	x		53.7	0	5.0	5.0			
Warp 4	x		25.6	0	3.3	3.3			
Warp 5		x	0	0	0.8	0.8			
Warp 6		x	6.1	0	1.0	1.0			
Warp 7		x	7.0	0	0.9	0.9			
Warp 8		x	18.7	0	1.1	1.1			
Warp 9		x	17.8	0	1.6	1.6			
Fill 1	x		27.2	0	3.0	3.0			
Fill 2	x		38.3	0	6.2	6.2			
Fill 3	x		91.6	0	9.1	9.1			
Fill 4		x	46.2	0	2.9	2.9			
Fill 5		x	32.6	0	2.3	2.3			
Fill 6		x	14.6	0	0.9	0.9			

CALC		REVISED	DATE
CHECK	R. Forte	3-20-68	
APPD			
APPD			

6-7612-4
1304
D6-1084
D6-6250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

NML 8284

IDENTIFICATION J. L. Larson #850 Stripe Drapery **MAT'L TYPE** Textile

MATERIAL Nylon

PROPOSED USE Drapery for Pan Am

IDENTIFICATION COLOR CODE, BAC NO. 5028

MANUFACTURER Jack L. Larson

TEST METHODS AND REQUIREMENTS D6-8099 BMS 8-59A. Material shall be self-extinguishing in 2 seconds or less when tested vertically. Char length shall not exceed 6 inches.

FAR 25.753 (a) Material shall be self-extinguishing after flame removal when tested in vertical and horizontal positions. The average char length may not exceed 8 inches when tested vertically and 4 inches when tested horizontally.

DEVIATION FROM TEST METHOD

Four warp specimens tested vertically
Five fill specimens tested horizontally.

LAUNDERED THREE TIMES

CALC		REVISED	DATE
CHECK	R. Forte	3-20-68	
APPD			
APPD			

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Warp 1	x	18.2	0	3.8	3.8			Melting & Dripping
Warp 2	x	2.3	0	1.4	1.4			Self-Ext. length (in).
Warp 3	x	1.6	0	2.5	2.5			1.4-18.2
Warp 4	x	1.4	0	2.0	2.0			Excessive
Warp 5		0	0	0.5	0.5			
Warp 6	x	0	0	0.5	0.5			
Warp 7	x	0	0	0.5	0.5			
Warp 8	x	0	0	0.7	0.7			Moderate
Warp 9	x	0	0	0.5	0.5			0 0.54
Fill 1	x	7.6	0	2.1	2.1			
Fill 2	x	7.5	0	1.9	1.9			Excessive
Fill 3	x	14.6	0	3.1	3.1			7.5-14.6
Fill 4		0	0	0.5	0.5			
Fill 5	x	0	0	0.6	0.6			Moderate
Fill 6	x	0	0	0.5	0.5			0 0.53

8-7612-4
1394
D6-1084
D6-6250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

BML 8284

IDENTIFICATION J. L. Larson #850 Stripe Drapery

MAT'L TYPE Textile

IDENTIFICATION COLOR CODE, BAC NO. 5028

MATERIAL Nylon

MANUFACTURER Jack L. Larson

PROPOSED USE Drapery for BAN AM

TEST METHODS AND REQUIREMENTS D6-8099

BMS 8-59A. Material shall be self-extinguishing in 2 sec. or less when tested vertically. Char length shall not exceed six inches.

FAR 25.853 (a). Materials shall be self-extinguishing after flame removal when tested in vertical and horizontal positions. The average char length may not exceed 8 inches when tested vertically and 4 inches when tested horizontally.

DEVIATION FROM TEST METHOD

Four warp specimens tested vertically.
Five fill specimens tested horizontally.

"AS RECEIVED"

CALC		REVISED	DATE
CHECK	R. Forte	3-20-68	
APPD			
APPD			

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS	
									Melting & Dripping Amount	Self-Ext. (sec.)
Warp 1	x		22.0	0	4.0	4.0				
Warp 2	x		51.7	0	6.3	6.3				
Warp 3	x		23.7	0	3.1	3.1				
Warp 4	x		15.2	0	3.1	3.1				
Warp 5		x	4.6	0	0.8	0.8			Excessive	15.8-51.7
Warp 6		x	21.1	0	2.3	2.3				4.1
Warp 7		x	10.0	0	1.2	1.2				
Warp 8		x	27.4	0	2.2	2.2			Moderate	4.6-27.4
Warp 9		x	10.0	0	1.3	1.3				
Fill 1	x		1.7	0	1.7	1.7				
Fill 2	x		12.2	0	2.5	2.5			Excessive	1.7-18.8
Fill 3	x		18.8	0	2.5	2.5				
Fill 4		x	5.0	0	0.5	0.5				
Fill 5		x	0.0	0	0.6	0.6			Moderate	0-7.5
Fill 6		x	7.5	0	0.7	0.7				0.6

6-7612-4
1394
D6-1084
D6-6250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION S-2435 Tedlar/Nomex Construction & Fiber MAT'L TYPE Textile - Knit EML 8226
 IDENTIFICATION COLOR CODE, BAC NO. only MATERIAL Silver Metallic Face/Green Nomex
 MANUFACTURER Jack Lenor Larson PROPOSED USE Drapery for PAA Back

TEST METHODS AND D6-8099

REQUIREMENTS D6-13600, Section 3.1.1 Material shall be self-extinguishing within 15 seconds when tested horizontally and vertically for flame resistance. Maximum char length for horizontal is 4 inches and 7 inches for vertical.

DEVIATION FROM TEST METHOD

- ⚠ Green Nomex side towards flame.
- ⚠ Silver Metallic side towards flame. DRY CLEANED ONCE.

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
W-1	x		7.9	1	2.00	1.50			Moderate amount of gray smoke evolved. No melting or dripping occurred.
W-2	x		7.6	2	1.75	1.25			
W-3	x		8.4	1	2.00	1.50			
C-1	x		3.0	0	1.50	1.00			
C-2	x		2.4	2	1.50	1.00			
C-3	x		2.7	1	2.00	1.50			
W-1		x	3.0	2	0.75	0.75			
W-2		x	2.3	1	0.50	0.50			
W-3		x	2.9	0	0.50	0.50			
C-1		x	6.3	0	1.00	1.00			
C-2		x	5.0	2	1.00	1.00			
C-3		x	5.8	1	1.00	1.00			
W-1		x	3.3	0	0.75	0.75			
W-2		x	2.7	2	0.75	0.75			
W-3		x	2.9	1	0.50	0.50			
C-1		x	5.4	1	0.75	0.75			
C-2		x	6.7	2	0.75	0.75			
C-3		x	5.9	1	1.00	1.00			

CALC		REVISED	DATE
CHECK	R. Forte	3-18-68	
APPD			
APPD			

6-7612-4
1386
D6-1084
D6-6250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

MML 8226

IDENTIFICATION S-2435 Tedlar/Nomex Construction & fiber MAT'L TYPE Textile - Knit

IDENTIFICATION COLOR CODE, BAC NO. only MATERIAL Silver Metallic Face/Green Nomex back

PROPOSED USE Drapery for PAA

MANUFACTURER Jack Lenor Larsen

TEST METHODS AND D6-8099

REQUIREMENTS D6-13600, Section 3.1.1 Materials shall be self-extinguishing within 15 seconds when tested horizontally and vertically for flame resistance. Maximum char length for horizontal is 4 inches and 7 inches for vertical directions.

DEVIATION FROM TEST METHOD

1 Green Nomex side towards flame.

2 Silver Metallic side towards flame.

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
1									
W-1	x		5.7	0	0.75	0.75			Small amount of gray smoke evolved. No melting or dripping.
W-2	x		7.2	2	0.75	0.75			
W-3	x		10.8	1	1.00	1.00			
C-1	x		5.9	0	1.00	1.00			
C-2	x		6.6	0	1.00	1.00			
C-3	x		6.4	1	1.00	1.00			
2									
W-1	x		7.8	0	0.75	0.75			Small amount of gray smoke evolved. No melting or dripping.
W-2	x		6.4	1	0.74	0.75			
W-3	x		11.8	0	0.50	0.50			
F-1	x		10.0	0	0.75	0.75			
F-2	x		7.9	2	0.75	0.75			
F-3	x		8.1	0	0.75	0.75			

CALC		REVISED	DATE
CHECK	R. Forte	3-18-68	
APPD			
APPS			

6-76124
1386
D6-1084
D6-6250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE										
IDENTIFICATION S-2435		Tedar/Nomex Construction & Fiber only		MAT'L TYPE Textile - Knit		RML 8226				
IDENTIFICATION COLOR CODE, BAC NO.		MATERIAL Silver Metallic Face/Green Nomex Back								
MANUFACTURER <u>Jack-Lenox-Larson</u>		PROPOSED USE <u>Drapery for PAA</u>								
TEST METHODS AND REQUIREMENTS		D6-8099 D6-13600, Section 3.1.1 Materials shall be self-extinguishing within 15 seconds when tested horizontally and vertically for flame resistance. Max. char length for horizontal is 4 inches and 7 inches for vertical.								
DEVIATION FROM TEST METHOD										
SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES		CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.			VERT.	HORIZ.				
W-1	x		3.5	0	2.25		1.75			Moderate amount of gray smoke evolved. No melting or dripping occurred.
W-2	x		0	0	2.00		1.00			
W-3	x		3.7	0	2.25		2.00			
W-4	x		3.8	1	2.50		2.00			
W-5	x		9.4	0	2.00		1.75			
W-6	x		4.0	3	1.25		1.00			
C-1	x		28.4	2	6.00		5.00			
C-2	x		14.4	0	4.50		3.50			
C-3	x		4.0	0	2.00		1.75			
C-4	x		11.2	0	2.00		1.25			
C-5	x		12.0	0	2.00		0.50			
C-6	x		9.7	0	2.50		1.25			

CALC		REVISED	DATE	
CHECK	R. Forte	3-18-68		
APPD				
APPD				
				6-7612-4 1386 D6-1084 D6-6250TN
				PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

MIL 8112

MATERIAL TYPE Textile

IDENTIFICATION Drapery Pattern #20121

MATERIAL 100% Verel Modacrylic

IDENTIFICATION COLOR CODE, BAC NO.

PROPOSED USE Drapery for Aloha Airlines

MANUFACTURER Okinoka Mills

TEST METHODS AND D6-8099

REQUIREMENTS FAR 25.853 (a) Material shall be self-extinguishing in warp and fill directions when tested in the vertical and horizontal positions. Char length shall not exceed 8 inches in the vertical and 4 inches in the horizontal.

DEVIATION FROM TEST METHOD

△ Dry cleaned three times.

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1W	x		0	0	1.00	0.50			Small to moderate amounts of smoke evolved. Slight odor. Excessive amount of smoke evolved having sharp pungent odor. Melting, no dripping occurred.
2W	x		0	0	1.25	1.00			
3W	x		0	0	1.25	0.75			
1F	x		0	0	1.00	1.00			
2F	x		0	0	1.00	0.75			
3F	x		0	0	1.50	1.25			
1W		x	0	0	2.75	1.0			
2W		x	0	0	2.00	1.50			
3W		x	0	0	2.00	1.25			
1F		x	0	0	2.00	1.50			
2F		x	0	0	3.00	2.00			
3F		x	0	0	2.00	1.50			

CALC		REVISED	DATE
CHECK	R. J. Forte	3-5-68	
APPD			
APPD			

6-7612-4
1367
06-1084
06-6250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE									
IDENTIFICATION	Drapery Pattern #20121	MAT'L TYPE	Textile						
IDENTIFICATION COLOR CODE, BAC NO.		MATERIAL, 100% Verel Modacrylic	8112 FML						
MANUFACTURER	Orinoka Mills	PROPOSED USE	Drapery for Aloha Airlines						
TEST METHODS AND REQUIREMENTS	D6-8099 FAR 25.853 (a)	Material shall be self-extinguishing in warp and fill directions when tested in the vertical and horizontal positions. Char lengths shall not exceed eight inches in the vertical and four inches in the horizontal.							
DEVIATION FROM TEST METHOD 1 <input type="checkbox"/> Laundered three times									
SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1W		x	0	0	1.00	0.50			Small amount of smoke evolved. Slight odor. Excessive amount of gray smoke evolved having sharp pungent odor. Melting, no dripping occurred.
2W		x	0	0	1.75	1.25			
3W		x	0	0	1.00	0.75			
1F		x	0	0	2.00	1.50			
2F		x	0	0	1.75	1.25			
3F		x	0	0	1.25	1.0			
1W			0	0	3.00	0.50			
2W	x	x	0	0	3.00	1.50			
3W	x	x	0	0	3.0	2.0			
1F	x	x	3.0	0	3.0	1.75			
2F	x	x	2.20	0	3.0	2.00			
3F	x	x	2.80	0	3.0	2.00			

CALC		REVISED	DATE
CHECK	R. J. Forte	3-5-68	
APPD			
APPD			

6-7612-4
1367
06-1084
06-6250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Drapery Pattern #20121 **MAT'L TYPE** Textile **BML** 8112

IDENTIFICATION COLOR CODE, BAC NO. **MATERIAL** 100% Verel Modacrylic

MANUFACTURER Orinoka Mills **PROPOSED USE** Drapery for Aloha Airlines

TEST METHODS ~~MSB~~ D6-8099 **REQUIREMENTS** FAR 25.853 (a).
 Material shall be self-extinguishing in warp and fill directions when tested in the vertical and horizontal positions. Char length shall not exceed eight inches in the vertical and 4 inches in the horizontal.

DEVIATION FROM TEST METHOD

△ Tested "as received"

CALC		REVISED	DATE
CHECK	R. J. Forte	3-5-68	
APPD			
APPD			

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
1W		0	0	0.75	0.5			Moderate to heavy amounts of smoke evolved. Material melts from flame front. Excessive amount of gray smoke evolved. Having sharp pungent odor. Melting, no dripping occurred.
2W	x	0	0	1.25	1.0			
3W	x	0	0	1.00	0.75			
1F		0	0	1.50	1.25			
2F	x	0	0	0.75	0.75			
3F	x	0	0	1.00	1.00			
1W		0	0	2.50	1.50			
2W	x	0	0	3.00	1.50			
3W	x	0	0	3.00	2.00			
1F		0	0	4.00	3.50			
2F	x	0	0	3.00	1.75			
3F	x	0	0	3.00	2.00			

6-7612-4
 1367
 06-1085
 06-6250TN

17

TEST REPORT DATA SHEET

MATERIAL TYPE Textile - Knit
 BAC CODE _____
 PROPOSED USE Drapery for PAA

MANUFACTURER Jack Lenor Larson
 CODE S-2435 Bronze Tedlar & Nomex - Construction & Fiber
 MATERIAL Silver Metallic Face/Green NomexBack only

EXPLANATORY INFORMATION:

F_s = Flame Spread Factor
 Q = Heat Evaluation Factor
 I_s = Flame Spread Index

Wale - column of loops in lengthwise direction of knitted fabric.
 Course - successive loops in crosswise direction of knitted fabric.
 Wale corresponds to warp direction and course to fill direction of a woven fabric.

1 Nomex side towards flame.

2 Metallic side towards flame.

CHARACTERISTIC	TEST METHOD	DEVIATION FROM TEST METHOD	REQUIREMENT	RESULTS			
Radiant Panel Test	ASTM E-162-66T	Material was tested with 1/2 inch air space; wire screen was not needed.	F _s 10 or less	Specimen F _s	Smoke Deposit (mg)		
			Q 8 or less	1 Wale 13.96	2 5.0	1 69.80	1.2
			I _s 30 or less	2 Wale 13.50	4.1	2 55.49	0.7
				3 Course 21.95	4.5	1 101.19	0.7
				4 Course 23.25	3.7	2 123.73	0.7
			Average	20.67	4.1	87.55	0.8
Comments:				The material is "Flash Potential" in that flashes rapidly progressed and receded the length of the specimen to 6 inches before sustained flaming occurred. Rapid progression of the flame front occurred pass the 3 inch mark giving a high flame spread factor. The flame front burned to approximately 10.5 inches before extinguishing.			

CALC		REVISED	DATE
CHECK	R. Forte	3-18-68	
APPD			
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6-7612-4
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 PAGE

CATEGORY 1

FABRICS: DECORATIVE - DRAPERY AND UPHOLSTERY

TESTED AT 1575°F, USING NATURAL GAS

CAT-1
B-90

DRAPERY FABRICS

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	CCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				CCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
American Viscose Flame Retardant Rayon, Blue, ST-3275-3 (Collins & Alkman)	(1) 1 (2) 0	0	5.5 5.2	7.4 7.6	-	-	-	-	(1) Warp (2) Fill	
Nylon - Turquoise Blue #6189 (E. F. Timms). Untreated and Treated By Two Process Processes	(1) 59 (3) 62 (5) 33 (6) 31	0	12.0* 12.0* 4.8 5.4	-	-	-	-	-	(1) Warp - Untreated (3) Warp - Treated By Fire Retardant Chemical Services (5) Warp and (6) Fill - Treated By Klesling Hess * Entire Specimen	
Dacron, 100% - Caron Curtain Liner (Collins & Alkman), Flame Retardant Treated By Calif. Flameproofing & Processing Co.	(3) 1 (4) 0	0	5.8 5.0	-	-	-	-	-	(3) Warp - Treated (4) Fill - Treated	
Draperly Fabric "Lauderdale" ST-3664-1 (Collins & Alkman)	26	0	5.0	-	-	-	-	-	Drips and Burns	
"Hooker Process": 90% Cotton-Rayon, 10% Nylon, B942 (Orinoko)	0	1	3.4	-	-	-	-	-		
"Key Chino" Electric Blue/ Avocado/River Blue 50/205/21 Ben Rose (Schumacher)	35	0	10*	-	-	-	-	-	* Entire Specimen	
Mendota, 100% Dynel 63-1012-537A (Collins & Alkman)	1	0	4.4	-	-	-	-	-		
New Orion Stripe 7538-0414-65-133 (Collins & Alkman)	31	0	12.0*	-	-	-	-	-	* Entire Specimen	
5.5 Denier F. R. Rayon Containing CRD 5106 RPI356/B Lot 2 FMC Corp. (American Viscose)	0	0	4.9	-	-	-	-	-		
Nylon & Mylar Powder Blue #63/1062 Monsilver. Untreated and Treated By Two Processes (Collins & Alkman)	(1) 47 (2) 48 (3) 0 (4) 0 (5) 0 (6) 0	0	12.0* 12.0* 0 1.7 1.5 2.4	-	-	-	-	-	(1) Warp - Untreated (2) Fill - Untreated (3) Warp and (4) Fill - Treated By Fire Retardant Chemical Services (5) Warp and (6) Fill - Treated By Klesling Hess * Entire Specimen	
Nylon #980059 Flame Stilton, TRC, DC-8, (Schumacher)	(1) 31 (2) - (3) -	47 - -	12* - -	- - -	0 12 14	6 5.1 4.4	6.9 6.9 6.3	-	(1) Warp Direction (2) Flameproofing by Fire Retardant Chem. Services - Warp (3) Flameproofed as above-Fill * Entire Specimen	
Nylon #980068 Horizontal Stripes TRC, DC-8, (Schumacher)	(1) 0 (2) 14 (3) - (4) -	6 3 - -	6.9 10.6 - -	- - - -	- 0 0 0	- 4 4.1 5	- 6.9 6.9 8.0	-	(1) Warp (2) Fill, 2 Specimens Burned Entire 12 inches. (3) Warp - Flameproofed by Fire Retardant Chemical Services (4) Fill - Flameproofed as Above	
Nylon Cloth Window Curtain Lining, DCB-50	0	0	5	-	-	-	-	-		
Vareil ST 4456-1 Collins & Alkman	(1) 0 (2) 0	0	3.8 3.7	-	0	6 9	6.4 7.4	-	(1) Warp (2) Fill	
Vareil/Viscose S-2932 Zenair-color Cardinal Natural, 70% Vareil, 30% Viscose E. F. Timms & Son.	0	17	7.2	7.9	0	9	6.7	7.4	Cloth Direction Unknown	

DRAPERY FABRICS

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	000-T-191b, METHOD 5902 12 SEC. EXPOSURE				000-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
Verel, 100% Paramount Pattern #19890 (Orinoka)	(1) 0 (2) 0	0	5.8 5.8	-	-	-	-	-	(1) Warp (2) F111	
Verel, 100% Westgate, Forest Park Collection, Background 6111-I (Clark & Burchfield)	(1) 2 (2) 4	0	7.6 6.5	-	-	-	-	-	(1) Warp (2) F111	
Verel, 100% Westgate, Background 6109-16, Pattern 8521, Color 000 (Clark & Burchfield)	(1) 0 (2) 4	0	6.9 7.1	-	-	-	-	-	(1) Warp (2) F111	
70% Verel - 30% Wool, 9993/3 (Orinoka Mills)	1	1	6.0	-	-	-	-	-	Warp	
60% Verel - 40% Wool, 9993/101 (Orinoka)	1	1	6.9	-	-	-	-	-	Warp	
50% Verel - 50% Wool, 9993/1 (Orinoka)	6	4	6.7	-	-	-	-	-	Warp	
Verel-quality Verdun; Pattern #1-5-7200; Color, Putty 3237; Flame Resistant #453 (Timme)	(1) 0 (2) 1	0	5.5 5.9	-	-	-	-	-	(1) Warp (2) F111	
Verel With Metallic Yarns 20065 Color 2286, (Orinoka)	(1) 20 (2) 4	0	8.6 4.9	-	-	-	-	-	(1) Warp (2) F111	
Same as above, 20065, Color 2284	(1) 3 (2) 10	1	6.6 7.3	-	-	-	-	-	(1) Warp (2) F111	
#200 "Danube", 70% Verel, 30% Viscose, Color Natural (Thorval Fireproof Fabrics)	0	15	6.7	-	-	-	-	-	Direction Unknown	
Verel, #19303 With Mylar Strands Blue, (Orinoka Mills)	(1) 15 (2) 0	0	4.1 4.3	-	-	-	-	-	(1) Hemmed (2) Non-Hemmed	
Verel, 998715, Brazil, TWA, (Schumacher)	(1) 0 (2) 0	15 8	5.0 4.5	-	-	-	-	-	(1) Warp (2) F111	
Verel, Pattern 19303, Color 9015, (Orinoka)	(1) 0 (2) 1	1	5.8 5.2	-	-	-	-	-	(1) Warp (2) F111	
Verel, Pattern 19717, Color 9015, (Orinoka)	(1) 0 (2) 0	1	6.3 6.2	-	-	-	-	-	(1) Warp (2) F111	
Verel & Mylar, Pattern 19717, Color 2408 Turquoise, (Orinoka)	(1) 0 (2) 0	1	5.5 5.2	-	-	-	-	-	(1) Warp (2) F111	
Verel, Pattern 19346, Color 2408 Turquoise, (Orinoka)	(1) 0 (2) 0	1	5.0 5.2	-	-	-	-	-	(1) Warp (2) F111	
Verel, Pattern 19346, Color Pumpkin, (Orinoka)	(1) 0 (2) 0	0	5.9 4.7	-	-	-	-	-	(1) Warp (2) F111	
Verel, Pattern 19346, Color 2098, (Orinoka)	(1) 0 (2) 0	0	5.9 6.3	-	-	-	-	-	(1) Warp (2) F111	
Verel & Wool, Quality 08207, Color Gold, "Berrington", (Clark & Burchfield)	(1) 0 (2) 6	7 0	5.3 6.2	-	-	-	-	-	(1) Warp (2) F111	
Verel, Trial 4666, Color Natural (Clark & Burchfield)	(1) 0 (2) 0	0	5.7 5.6	-	-	-	-	-	(1) Warp (2) F111	
Verel, Color Natural, (Fifia Mills)	(1) 0 (2) 0	0	5.5 5.7	-	-	-	-	-	(1) Warp (2) F111	
Verel - Orinoka 20017 (Orinoka)	(1) 1 (2) 3	0	5.8 6.0	-	-	-	-	-	(1) Warp (2) F111	
Verel - Orinoka #19962, Color 2408 Turquoise (Orinoka)	(1) 7 (2) 2	0	6.0 5.5	-	-	-	-	-	(1) Warp (2) F111	
70% Verel, 30% Rayon "Key Chlo" #50/205/21 (Ben Rose)	(1) 0 (2) 0	5 5	6.5 6.9	-	-	-	-	-	(1) Warp (2) F111	
Verel Pattern 19303, Color 2394, (Orinoka)	(1) 0 (2) 0	0	5.9 6.2	-	-	-	-	-	(1) Warp (2) F111	
Verel & Mylar Orinoka Pattern #19303 Color #206, (Clark & Burchfield)	(1) 0 (2) 3	0	6.1 5.7	-	-	-	-	-	(1) Warp (2) F111	
Verel & Mylar - Orinoka Pattern #19303, Color #525, Powder Blue (Clark & Burchfield)	(1) 0 (2) 0	1	5.6 5.8	-	-	-	-	-	(1) Warp (2) F111	

DRAPERY FABRICS

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	CCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				CCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
Velvet With Gold Mylar Thread, 19303, Color 2286, (Orinoka Mills)	0	0	4	-	-	-	-	-	Direction Unknown	
Experimental - 32% Velvet, 54% Rovana, 14% Rayon Covel (Clark & Burchfield)	0	9	4.7	-	-	-	-	-	Direction Unknown	
Experimental - 40% Velvet, 43% Rovana, 17% Rayon Covel (Clark & Burchfield)	0	5	5.4	-	-	-	-	-	Direction Unknown	
Experimental - 49% Velvet, 30% Rovana, 21% Rayon Covel (Clark & Burchfield)	0	2	4.9	-	-	-	-	-	Direction Unknown	
Experimental - 57% Velvet, 24% Rovana, 19% Flax Covel (Clark & Burchfield)	0	2	4.9	-	-	-	-	-	Direction Unknown	
Experimental - 54% Velvet, 29% Rovana, 17% Flax Covel (Clark & Burchfield)	0	3	6.1	-	-	-	-	-	Direction Unknown	
Experimental - 45% Velvet, 36% Rovana, 19% Rayon Covel (Clark & Burchfield)	0	3	5.2	-	-	-	-	-	Direction Unknown	
Velvet, "Morning Mist", (Clark & Burchfield)	-	-	-	-	(1) 0 (2) 0	0 0	7.5 7.4	-	(1) Warp (2) Fill	
Velvet, #998715, Brazil Schumacher	0	11	5.7	6.5	-	-	-	-		
Wool - Light Blue Gabardine #63-1322, Scotchgard Treated (Collins & Alkman), Untreated and Treated By Fire Retardant Chemical Services	(1) 70 (3) 43	0 0	11.5 12.0*	-	-	-	-	-	(1) Warp - Untreated (3) Warp - Treated * Entire Specimen	
Wool - "Naples Tan" L.A. Mills #137 (Clark & Burchfield), Untreated and Treated By Fire Retardant Chemical Services	(1) 69 (3) 0 (4) 1	0 0 0	12.0* 1.4 1.5	-	-	-	-	-	(1) Warp - Untreated (3) Warp - Treated (4) Fill - Treated * Entire Specimen	
Wool - "October #42" (Collins & Alkman), Untreated and Treated By Fire Retardant Chemical Services	(1) 23 (3) 0 (4) 0	0 0 0	12.0* 4.0 3.8	-	-	-	-	-	(1) Warp - Untreated (3) Warp - Treated (4) Fill - Treated * Entire Specimen	
Wool - "Stripes" #D-201 (Clark & Burchfield) Untreated and Treated By Fire Retard- ant Chemical Services	(1) 19 (3) 1 (4) 10	0 0 0	12.0* 1.9 4.0	-	-	-	-	-	(1) Warp - Untreated (3) Warp - Treated (4) Fill - Treated * Entire Specimen	
Wool - #30 Bittersweet (Clark & Burchfield), Untreated and Treated By Fire Retard- ant Chemical Services	(1) 35 (3) 0 (4) 9	0 3 0	12.0* 2.5 3.8	-	0 0	1 4	5.3 5.1	-	(1) Warp - Untreated (3) Warp - Treated (4) Fill - Treated * Entire Specimen	
Wool Gabardine - "Alfalfa" #507 (Clark & Burchfield) Untreated and Treated By Fire Retardant Chemical Services	(1) 26 (3) 0 (4) 18	0 0 0	14.8 2.3 6.3	-	-	-	-	-	(1) Warp - Untreated (3) Warp - Treated (4) Fill - Treated	
Wool - "Moorl" #5881 No Design (Clark & Burchfield), Untreated and Treated By Fire Retardant Chemical Services	(1) 21 (3) 13 (4) 8	0 0 0	12.0* 7.0 7.0	-	-	-	-	-	(1) Warp - Untreated (3) Warp - Treated (4) Fill - Treated * Entire Specimen	
Wool & Rayon "Skyway" #370 Blue Green (Clark & Burchfield) Flame Retardant Treated, As Received	(1) 1 (2) 0	0 0	4.1 1.0	-	-	-	-	-	(1) Warp (2) Fill	
Wool - La Jolla Kemels (Clark & Burchfield) Untreated and Treated By Fire Retard- ant Chemical Services	(2) 40 (4) 29	0 0	12.0* 12.0*	-	-	-	-	-	(2) Fill - Untreated (4) Fill - Treated * Entire Specimen	
Wool - Timme Fabric #6155 Grey, Cust. Furn. Equip. #71903 (Timme), Untreated and Treated By Fire Retardant Chemical Services	(1) 88 (2) 69 (3) 0 (4) 0	0 0 0 0	12.0* 12.0* 1.9 1.6	-	-	-	-	-	(1) Warp - Untreated (2) Fill - Untreated (3) Warp - Treated (4) Fill - Treated * Entire Specimen	
Wool - Lauderdale Fabric ST- 3664-1 (Collins & Alkman) Untreated and Treated By Fire Retardant Chemical Services	(1) 24 (2) 61 (3) 0 (4) 0	0 0 0 0	(5) 2 (5) 9.5 2.4 2.3	-	-	-	-	-	(1) Warp - Untreated (2) Fill - Untreated (3) Warp - Treated (4) Fill - Treated (5) Specimens Drp & Burn	

DRAPERY FABRICS

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	COC-T-191b, METHOD 5902 12 SEC. EXPOSURE				COC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
Wool - Line on Line #52 Fabric (Clark & Burchfield). Untreated and Treated By Fire Retardant Chemical Services	(1) 25 (3) 0 (4) 0	0 0 0	12.0* 5.3 4.6	-	-	-	-	-	(1) Warp - Untreated (3) Warp - Treated (4) Filt - Treated * Entire Specimen	
Wool and Veral - Barrington Rand Orange #2 (Clark & Burchfield)	(1) 1 (2) 1	0 1	5.3 5.0	-	-	-	-	-	(1) Warp (2) Filt	
Wool, Veral, Rayon & Mylar - Barrington Fabric X-207 (Clark & Burchfield). Untreated and Treated By Fire Retardant Chemical Services	(1) 40 (3) 27	0 1	12.0* 8.7	-	-	-	-	-	(1) Warp - Untreated (3) Warp - Treated * Entire Specimen	
Wool, Mylar, Rayon Savannah #27 (Clark & Burchfield) Untreated and Treated By Fire Retardant Chemical Services	(1) 63 (4) 24	0 0	12.0* 12.0*	-	-	-	-	-	(1) Warp - Untreated (4) Filt - Treated * Entire Specimen	
Wool - Blue Gabardine; Color DN-4710, 7 oz. (Collins & Alkman). Untreated and Treated By Fire Retardant Chemical Services	(1) 33 (3) 8 (4) 23	0 0 0	12.0* 4.8 9.7	-	-	-	-	-	(1) Warp - Untreated (3) Warp - Treated (4) Filt - Treated * Entire Specimen	
Wool - Grey Zephyr 4-925 With White Pom Pom (Collins & Alkman). Untreated and Treated By Fire Retardant Chemical Services	(1) 29 (3) 1 (4) 0	0 0 0	12.0* 4.2 4.5	-	-	-	-	-	(1) Warp - Untreated (3) Warp - Treated (4) Filt - Treated * Entire Specimen	
Wool Gabardine - Tappa Turquoise #5-20 (Clark & Burchfield). Untreated and Treated By Fire Retardant Chemical Services	(1) 30 (3) 0 (4) 6	0 0 0	12.0* 2.2 5.0	-	-	-	-	-	(1) Warp - Untreated (3) Warp - Treated (4) Filt - Treated * Entire Specimen	
Wool Gabardine, Bleached - Melmo Silk Screen #17400 (Clark & Burchfield). Untreated and Treated By Fire Retardant Chemical Services	(1) 22 (3) 14 (4) 0	0 0 0	10.7 7.7 3.3	-	-	-	-	-	(1) Warp - Untreated (3) Warp - Treated (4) Filt - Treated	
Wool - Maori Fabric #5881 With Silk Screen Design (Clark & Burchfield). Untreated and Treated By Fire Retardant Chemical Services	(1) 26 (3) 10 (4) 10	0 0 0	12.0* 6.8 7.0	-	-	-	-	-	(1) Warp - Untreated (3) Warp - Treated (4) Filt - Treated * Entire Specimen	
Wool - Gold Gabardine #57-6 With White Pom Pom (Collins & Alkman). Untreated and Treated By Fire Retardant Chemical Services	(1) 41 (3) 28 (4) 0	0 0 0	11.7 9.1 2.9	-	-	-	-	-	(1) Warp - Untreated (3) Warp - Treated (4) Filt - Treated * Entire Specimen	
Wool Gabardine - Morning Mist #285 DMS 1697 (Clark & Burchfield). Untreated and Treated By Fire Retardant Chemical Services	(1) 26 (3) 1 (4) 0	0 0 0	12.0* 3.5 4.1	-	-	-	-	-	(1) Warp - Untreated (3) Warp - Treated (4) Filt - Treated * Entire Specimen	
Wool - Golden Flight #79 (Clark & Burchfield) Untreated and Treated By Fire Retardant Chemical Services	(1) 19 (3) 4 (4) 0	0 0 0	11.1 4.1 6.4	-	-	-	-	-	(1) Warp - Untreated (3) Warp - Treated (4) Filt - Treated	
Wool - Rond Red Fiesta #358 (Clark & Burchfield) Untreated and Treated By Fire Chemical Services	(1) 34 (3) 0 (4) 1	0 1 1	12.0* 3.5 3.5	-	-	-	-	-	(1) Warp - Untreated (3) Warp - Treated (4) Filt - Treated * Entire Specimen	
Wool - Cebu Fabric #42013, Color 2935 (Webb Textiles) Untreated and Treated By Fire Retardant Chemical Services	(1) 44 (3) 21	0 0	12.0* 9.5	-	-	-	-	-	(1) Warp - Untreated (3) Warp - Treated * Entire Specimen	
Wool - Nouveau Fabric #5881 (Clark & Burchfield). Untreated and Treated By Fire Retardant Chemical Services	(1) 29 (3) 0 (4) 21	0 0 0	12.0* 4.4 10.1	-	-	-	-	-	(1) Warp - Untreated (3) Warp - Treated (4) Filt - Treated * Entire Specimen	
Wool Gabardine - Tappa Turquoise on Gold Fabric #321 (Clark & Burchfield) Untreated and Treated By Fire Retardant Chemical Services	(1) 29 (3) 0 (4) 0	0 0 0	12.0* 2.7 2.7	-	-	-	-	-	(1) Warp - Untreated (3) Warp - Treated (4) Filt - Treated * Entire Specimen	

DRAPERY FABRICS

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	DCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				DCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
Wool - Grey Zephyrs #4-928, Tree Top Design (Clark & Burchfield), Untreated and Treated By Fire Retardant Chemical Services	(1)124 (3) 3 (4)17	0 0 0	12.0* 6.6 9.4	-	-	-	-	-	(1) Warp - Untreated (3) Warp - Treated (4) FILL - Treated * Entire Specimen	
Wool - Ivory Zephyrs Spanish Grille Red (Collins & Alkman) Untreated and Treated By Fire Retardant Chemical Services	(1)126 (3) 1 (4) 5	0 0 0	12.0* 5.3 6.6	-	-	-	-	-	(1) Warp - Untreated (3) Warp - Treated (4) FILL - Treated * Entire Specimen	
Wool & Mylar Strands, Kanola Victorian #64 (Clark & Burchfield)	(1)143 (2)143	0 0	10.7 12.0*	-	-	-	-	-	(1) Hemmed (2) Non-Hemmed * Entire Specimen	
Wool - Princess Ann #267, (L. A. Mills)	(1)161 (2)148	0 0	11.5 12.0*	-	-	-	-	-	(1) Hemmed (2) Non-Hemmed * Entire Specimen	
Wool Gabardine, Blue (Vendor Unknown)	(1)151 (2)150	0 0	11.5 12.0*	-	-	-	-	-	(1) Hemmed (2) Non-Hemmed * Entire Specimen	
100% Wool Gabardine, Natural, Treated By Fire Retardant Chemical Service (J. P. Stevens)	(1) 0 (2) 2 (3) 4 (4) 1	0 0 0 0	2.7 3.1 3.2 3.6	-	-	-	-	-	(1) Warp - As Received (2) FILL - As Received (3) Warp - After Dry Cleaning (4) FILL - After Dry Cleaning	
Wool Textura Weave, Natural, #1401, Treated By Fire Retardant Chemical Services (Stillwater Wousted Mills)	(1) 0 (2) 0 (3) 0 (4) 0	0 0 0 0	3.2 2.7 3.3 3.6	-	-	-	-	-	(1) Warp - As Received (2) FILL - As Received (3) Warp - After Dry Cleaning (4) FILL - After Dry Cleaning	
Wool Gabardine, Morning Mist #285, With Hooker Process (Clark & Burchfield)	(1) 0 (2) 0 (3) 0 (4) 1 (5) 0 (6) 0	0 0 0 0 4 2	4.3 4.3 4.0 3.8 4.3 4.1	-	-	-	-	-	(1) Warp - As Received (2) FILL - As Received (3) Warp - After Laundering (4) FILL - After Laundering (5) Warp - After Dry Cleaning (6) FILL - After Dry Cleaning	
Wool - Hand Woven, #14 Gold Strike, With Hooker Process (Clark and Burchfield)	(1) 0 (2) 0 (3) 0 (4) 0 (5) 0 (6) 0	0 0 0 0 0 0	3.3 3.5 1.5 1.5 3.0 3.0	-	-	-	-	-	(1) Warp - As Received (2) FILL - As Received (3) Warp - After Laundering (4) FILL - After Laundering (5) Warp - After Dry Cleaning (6) FILL - After Dry Cleaning	
Wool - #32 Line On Line, With Hooker Process (Clark and Burchfield)	(1) 0 (2) 0 (3) 0 (4) 0 (5) 0 (6) 0	0 0 0 0 4 2	3.7 3.9 3.3 2.9 3.5 3.3	-	-	-	-	-	(1) Warp - As Received (2) FILL - As Received (3) Warp - After Laundering (4) FILL - After Laundering (5) Warp - After Dry Cleaning (6) Warp - After Dry Cleaning	
Wool - Princess Ann #267 Untreated and Treated By Fire Retardant Chemical Services (Clark & Burchfield)	(1)148 (2)149 (3) 2 (4) 0	0 0 0 0	12.0* 12.0* 2.3 2.6	-	-	-	-	-	(1) Warp - Untreated (2) FILL - Untreated (3) Warp - Treated (4) FILL - Treated * Entire Specimen	
Wool and Mylar - Kanola Victorian #64 (Clark & Burchfield), Untreated and Treated By Fire Retardant Chemical Services	(1)143 (3)23	0 0	12.0* 10.2	-	-	-	-	-	(1) Warp - Untreated (3) Warp - Treated * Entire Specimen	
Wool - Mayen #42011 (Webb Textiles), Untreated and Treated By Fire Retardant Chemical Services	(1)138 (2)137 (3) 4 (4) 0	0 0 0 0	8.1 12.0* 4.1 4.0	-	-	-	-	-	(1) Warp - Untreated (2) FILL - Untreated (3) Warp - Treated (4) FILL - Treated * Entire Specimen	
Experimental Beta Fiberglass, 755 (Uniglass Industries)	0	2	0	-	-	-	-	-		
Experimental Beta Fiberglass, 0-30-44 (Uniglass Industries)	0	2	0	-	-	-	-	-		
"Melbourne", Color Sand, Beta Glass Fiber #9065/15 (Thorbet Fireproof Fabrics, Inc.)	0	1	0	2.8	-	-	-	-		
Nonex Dyeable Fabrics, Dyed With Monocomponent Color, 6.6 oz/sq. Yd. (DuPont) #2251-52-1 (W) (F) #2251-52-2 (W) (F) #2251-52-3 (W) (F)	0 0 0 0 0	17 22 21 16 25 14	2.4 2.5 2.4 2.8 2.4 2.3	3.2 3.2 3.3 3.8 3.4 3.2	-	-	-	-	(W) Warp (F) FILL	
Schumacher "Horizontal Stripes" 998021	(1) 0 (2) 0	11 9	4.6 5.4	-	-	-	-	-	(1) Warp (2) FILL	

FABRICS, UPHOLSTERY

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	CCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				CCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
Bedford Cord, 100% wool, treated by Fire Retardant Chemical Co.	5	0	2.2	3.0	-	-	-	-		
ST 3612-1 Piece 110-889 w/o backing experimental 100% wool, Collins & Aikman	55	0	10.4	-	-	-	-	-	One out of three in vertical burned entire 12"	
4332-3 Upholstery Fabric Color - Red/Yellow, 100% wool, Collins & Aikman	46	0	8.4	-	-	-	-	-		
Experimental, Verel, Wool, Orinoka Mills	43	0	12.0*	-	-	-	-	-	*Entire specimen	
Experimental, Verel 100%, Orinoka Mills	70	0	12.0*	-	-	-	-	-	*Entire specimen	
ST-4466-1, Red/orange, 100% Verel, Collins & Aikman	(1) 0 (2) 0	0	3.8 3.7	-	-	-	-	-	(1) Warp (2) Fill	
ST 4085-1, Gold, Verel and glass Collins & Aikman	0	0	0	-	-	-	-	-		
Experimental, Nomex-wool, Orinoka Mills	0	2	3.8	5.3	-	-	-	-		
Experimental, Nomex-Verel	3	3	4.8	-	-	-	-	-		
ST 4501-2, 110-91 w/backing 100% Nomex, Collins & Aikman	0	11	2.1	3.0	-	-	-	-		
ST 4501-1, 110-73 w/o backing 100% Nomex, Collins & Aikman	0	11	2.6	3.1	-	-	-	-		
ST 4084-2, Olive, Nomex Collins & Aikman	0	0	1.2	-	-	-	-	-		
Nomex, Avila, 3011-217 w/o backing Collins & Aikman	(1) 0 (2) 2	6	0.9 1.3	1.8 2.3	-	-	-	-	(1) Warp (2) Fill	
Nomex, Avila, 3011-217 w/backing, Collins & Aikman	(1) 0 (2) 0	7	.3 .8	1.9 2.7	0	16	.6 1.9	3.2 3.6	(1) Warp (2) Fill	
ST-3011-217, Nomex (Dyeable) Upholstery, "Avila", red Collins & Aikman	0 (1a) 2 (1b) 0 (2a) 0 (2b) 13 (3a) 45 (3b)	6 6 7 7 0 0	0.9 1.3 0.3 0.8 3.7 6.4	1.8 2.3 1.9 2.7 5.7 7.2	-	-	-	-	(a) Warp (b) Fill (1) Without backing (2) With backing, Latex backing (3) With backing on wrong side	
2063-37-B, Nomex Upholstery, Camden Green, Orinoka Mills	0 (1a) 1 (2a) 4 (2b)	10 0 0	0.3 0.3 0.5	1.6 2.6 2.0	-	3	0.7 1.2	- 3.1 2.9	(a) Warp (b) Fill (1) Without backing (2) With backing	
K-15436, Nomex and other unidentified fibers, upholstery material, Craftex Mills	(1) 10 (2) 7	0	2.5 3.3	-	-	-	-	-	(1) Fill (2) Warp	
K-15431, Nomex and other unidentified fibers, upholstery material, Craftex Mills	(1) 0 (2) 0	0	2.0 .5	-	-	-	-	-	(1) Warp (2) Fill	
K-15930W, Nomex Fabric, color 33, Craftex Mills	-	-	-	-	0	16	2.5	6.0		
"Dundee" Gold, Nylon, untreated Collins & Aikman	87	0	9.2	-	-	-	-	-	Two specimens out of three burned entire 10" specimen in Vertical	
"Dundee" Gold, Nylon Collins & Aikman, treated by California Flameproofing	6	0	1.2	-	-	-	-	-		
#65/1295 Upholstery Fabric, Nylon, "Old Shannon Turquoise" Collins & Aikman	1255	0	11.1	-	-	-	-	-		
65-1849, 8298-8358, "Sunset" Nylon, Collins & Aikman	29	1	7.2	-	-	-	-	-		
ST-3011-195, Upholstery Fabric, "Avila", Color #66-114, Nylon, Collins & Aikman	61	-	7.4	-	-	-	-	-		
ST-3854-25, "Kona" Blue, 100% Nylon, Collins & Aikman	34	0	12.0*	-	-	-	-	-	*Entire specimen	

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	CCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				CCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
19693, Upholstery Fabric, "Provincia" Color 335, Nylon, Orinoka Mills	65	0	8.0	-	-	-	-	-		
19788, Upholstery Fabric, Nylon, "Zarape" ZAT, Color 348 Orinoka Mills	93	0	9.1	-	-	-	-	-		
90020, Schumacher "Flame Stitch" Nylon	(1) 20 (2) 17	12 36	9.9 6.6	-	-	-	-	-	(1) Warp (2) Fill	
Avila w/backing, 100% Nylon Collins & Aikman	88	0	12.0*	-	-	-	-	-	*Entire specimen	
ST-4394-1, 110-1444 w/backing, Wool/Nylon, Collins & Aikman	58	0	12.0*	-	-	-	-	-	*Entire specimen	
50% Rayon/40% Cotton, Flameproofed Upholstery #19357-P. No backing. This material has been washed and dry cleaned 5 times (procedure unknown). Orinoka Mills	-	-	-	-	(1) 0 (2) 0 (1) 0 (1) 0	0 0 0 0	4.6 4.1 3.7 3.9	5.5 5.1 4.8 4.6	(1) Warp, material as received (2) Fill Material after five machine washings Material after five dry-cleans in Stoddard Solvent.	
Same material as above except this has backing and has not been cleaned upon receiving.	-	-	-	-	(1) 0 (2) 0 (3) 0 (4) 0	0 0 0 0	5.2 5.8 5.5 4.6	6.2 6.3 5.7 5.8	(1) Warp material as received (2) Fill (3) Warp material after 5 machine washings (4) Warp material after 5 dry-cleans in Stoddard Solvent.	
52% Rayon/40% cotton #19357, No treatment, no backing. Color Mustard, Orinoka Mills	43	180	12.0*	-	-	-	-	-	*Entire specimen	
Polypropylene Upholstery, Doreline pattern, Atlas; Color, Peacock, Dorell Fabrics Co.	88	0	9.5*	-	-	-	-	-	*Entire specimen, warp direction	
227 (ZAT), Upholstery Fabric, 100% Nylon, Forestier Corp.	87	-	12.0*	-	-	-	-	-	*Entire specimen	
6209 (OZA), Upholstery Fabric, Algiers "Vain" Nylon E. F. Timm & Son	81	16	10*	-	-	-	-	-	*Entire specimen consumed.	
Nylon Upholstery, orange, treated by Fire Retardant Chemical Services; Chatham Mills	60	0	8.5*	-	-	-	-	-	*Entire specimens. Only two specimens	
Nylon Upholstery, Orange, treated by Fire Retardant Chemical Services; Chatham Mills	5	0	4.0	-	-	-	-	-	ONLY two specimens	
19829, Terracotta, Color #638, Nylon Orinoka Mills	32	0	5.0	6.1	-	-	-	-		
19824, Catmeal, Color #1, Nylon Orinoka Mills	41	0	11.6	-	-	-	-	-	Two vertical specimens of 3 burned entire 12.0 in	
20050, Orange, Color #334, Nylon Orinoka Mills	81	0	10.0	-	-	-	-	-	Two vertical specimens of 3 burned entire 12.0 in	
ST-4090-1, Gold, Dynel & Nylon, Collins & Aikman	46	0	7.7	-	-	-	-	-		
Upholstery Fabric, "Sauder 100", 75% Cotton, 25% Nylon, Collins & Aikman	459	0	11.6	-	-	-	-	-		
Candalon #150 "Flameproofed" Muehlen, Collins & Aikman	0	2	4.3	-	-	-	-	-		
Cheskinon #150 "Flameproofed" Muehlen, laundered 3 times. Collins & Aikman	3	7	4.3	-	-	-	-	-		
Avisco Rayon Fiber Batt, fire-retardant, 3M Corp., American Viscose Div.	0	0	4.5	-	-	-	-	-		
Avisco Rayon Fiber Batt, (Non-Fire Retardant) 3M Corp., American Viscose Div.	34	180	10.0*	-	-	-	-	-	*Entire specimen	

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	CCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				CCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
980093, Experimental 100% Polyester Upholstery Material Schumacher	14	0	3.5	-	-	-	-	-		
8322A/44, Experimental Beta Fiberglass, Uniglass Industries	(1) 0 (2) 0	1 1	0 0	1.3 1.3	- -	- -	- -	- -	(1) Warp (2) Fill	
19693, Upholstery Fabric Orinoka Mills	82	0	12.0*	-	-	-	-	-	*Burned entire specimen	
44775, Upholstery Fabric, Opal/ Calmeal S. M. Hexter	60	19	12.0*	-	-	-	-	-	*Burned entire specimen	
Dunleer Color #2469 Orinoka Mills	73	0	6.2	-	-	-	-	-		
Fire Resistant Cotton Cloth, California Flame Proofing & Processing Co.	(1) 0 (2) 0 (3) 0 (4) 0	4 5 9 3	3.6 3.0 2.9 6.3	-	-	-	-	-	(1) As received (2) Laundered 3 times (3) Dry cleaned 3 times (4) Dipped 1" in JP4 Fuel	
Unidentified Wool Fabric treated with Calif. Official #12 Featherweight Flame Retardant by California Flame-proofing and Processing Co.	-	-	-	-	0	0	4.6	4.6		

CATEGORY 2

FABRICS: NON-DECORATIVE

TESTED AT 1450°F, USING
PROPANE GAS.

CAT-2
B-99

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

BML 5589

IDENTIFICATION Flame Proofed Cotton

MAT'L TYPE

MATERIAL Cotton

IDENTIFICATION COLOR CODE, BAC NO.

PROPOSED USE Seat Cover Lining

MANUFACTURER Hardman - Industrial Masha

L. A., Calif.

TEST METHODS AND REQUIREMENTS

D6-8099

DEVIATION FROM TEST METHOD

As received

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED CHAR LENGTH INCHES		BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.			INCHES	INCHES			
Warp 1	X		0	0	5.0	6.0			Not much smoke. Not much odor. Burn length due to ignition.
2	X		0	0	4.0	4.4			
3	X		0	0	4.0	4.5			
Fill 1	X		0	0	4.8	4.8			
2	X		0	0	3.5	3.5			
3	X		0	0	4.6	4.6			
Warp 1		X	0	0	1.5	1.9			
2		X	0	0	1.3	2.2			
3		X	0	0	1.3	1.5			
Fill 1		X	0	0	1.2	1.2			
2		X	0	0	1.0	1.0			
3		X	0	0	1.3	1.3			

Table 1

CALC	RW Evans	7/2/67	REVISED	DATE
CHECK	Ⓚ	3/21/67		
APPD	M. Sumner	3/30		
APPD				

C/S
A3-731
26-1084
26-6250
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE				EML 5589				
IDENTIFICATION		100% Viscose		MAT'L TYPE				
IDENTIFICATION COLOR CODE, BAC NO.		Natural		MATERIAL				
MANUFACTURER		Collins And Aikman		PROPOSED USE				
TEST METHODS AND REQUIREMENTS		D6-8099		Seat Cushion Liner				
DEVIATION FROM TEST METHOD								
As received								
SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Warp								
1	X	0	4.0	3.0	3.0			Moderate smoke. Strong odor.
2	X	0	2.4	2.6	2.6			
3	X	0	2.9	3.3	3.3			
4	X	0	2.2	1.2	1.2			
5	X	0	0	1.2	1.2			
6	X	0	2.5	1.3	1.3			
Fill								
1	X	0	3.0	2.9	2.9			
2	X	0	2.2	3.5	3.5			
3	X	0	1.9	2.6	2.6			
4	X	0	1.6	1.1	1.1			
5	X	0	1.2	1.4	1.4			
6	X	0	1.7	1.2	1.2			

CALC	RW Evans	2/20/67	REVISED	DATE
CHECK	(Signature)	3/21		
APPD	M Sumner	3/30		
APPD				

Table 4

C/S
A3-731
D6-1084
D6-6250 TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION 100% Viscose EML 5589
 IDENTIFICATION COLOR CODE, BAC NO. Natural MAT'L TYPE MATERIAL
 MANUFACTURER Collins & Aikman PROPOSED USE

TEST METHODS AND REQUIREMENTS
 D6-8099

DEVIATION FROM TEST METHOD
 Laundered Twice

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Warp									
1	X		0	2.7	2.8	2.8			Much smoke, strong odor.
2	X		0	1.8	2.6	2.6			
3	X		0	0	1.8	1.8			
4		X	0	0	1.0	1.0			
5		X	0	0	.9	.9			
6		X	0	1.9	1.0	1.0			
Fill									
1	X		0	5.5	1.6	1.6			
2	X		0	3.5	2.3	2.3			
3	X		0	3.3	1.8	1.8			
4		X	0	0	1.0	1.0			
5		X	0	.5	.7	.7			
6		X	0	.9	1.0	1.0			

CALC	<i>[Signature]</i>	3/20/67	REVISED	DATE
CHECK	<i>[Signature]</i>	3/21		
APPD	<i>[Signature]</i>	3/30		
APPD				

Table 5

C/S
 A3-731
 D6-1084
 PL-62-50TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE										
IDENTIFICATION		100% Viscose		MAT'L TYPE		EML 5589				
IDENTIFICATION COLOR CODE, BAC NO.		Natural		MATERIAL						
MANUFACTURER		Collins & Aikman		PROPOSED USE						
TEST METHODS AND REQUIREMENTS		D6-8099								
DEVIATION FROM TEST METHOD		Dry cleaned twice								
SAMPLE NO.	MATERIAL POSITION	VERT.	HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Warp										
1	X			0	2.4	3.5	3.5	3.5		
2	X			1.0	1.0	2.8	2.8	2.8		
3	X			0	2.2	3.5	3.5	3.5		
4			X	0	1.2	.9	.9	.9		
5			X	0	1.0	1.3	1.3	1.3		
6			X	0	2.5	1.1	1.1	1.1		
Fill										
1	X			0	2.3	4.3	4.3	4.3		
2	X			0	2.1	2.2	2.2	2.2		
3	X			0	2.5	2.4	2.4	2.4		
4			X	0	0	1.0	1.0	1.0		
5			X	0	0	1.2	1.2	1.2		
6			X	0	0	1.2	1.2	1.2		Moderate to light smoke. Strong odor.

CALC	<i>RW Evans</i>	<i>3/29/62</i>	REVISED	DATE
CHECK	<i>QD</i>	<i>3/21</i>		
APPD	<i>M. Sumner</i>	<i>3/30</i>		
APPD				

Table 6

C/S
A3-731
D6-1084
D6-6250 TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE									
IDENTIFICATION		Flame Proofed Cotton			MAT'L TYPE		5589		
IDENTIFICATION COLOR CODE, BAC NO.		Hardman			MATERIAL				
MANUFACTURER		Industrial Textile			PROPOSED USE		Seat Custom Liner		
TEST METHODS AND REQUIREMENTS		D6-8099							
DEVIATION FROM TEST METHOD		Dry Cleaned Twice							
SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Warp	X				10.0		22.1	27	Almost burned to top during 12 sec. ign.
1	X		0	2.0	6.9		3.9	100	
2	X		0	2.0	1.2				
3	X		0	1.5	1.0				
4	X		0	2.1	1.1				
6	X		0						
FILL	X		0	1.0	4.0				
1	X		0	2.7	4.6				
2	X		0	0	3.2				
3	X		0	1.6	1.2				
4	X		0	3.7	1.3				
5	X		0	1.5	1.1				
6	X		0						

CALC	<i>W. Evans</i>	<i>3/20/67</i>	REVISED	DATE
CHECK	<i>W</i>	<i>3/21</i>		
APPD	<i>M. Swann</i>	<i>3/22</i>		
APPD				

Table 3

C/S
A3-731
D6-1004
D6-6250 TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

EML 5589

IDENTIFICATION Flame Proofed Cotton

MAT'L TYPE

MATERIAL

IDENTIFICATION COLOR CODE, BAC NO.

PROPOSED USE Seat Cover Lining

MANUFACTURER Hardman - Industrial Textile

L.A. Calif.

TEST METHODS AND REQUIREMENTS

D6-8099

DEVIATION FROM TEST METHOD

Laundered Twice

CALC	<i>RWE</i>	<i>3/20/67</i>	REVISED	DATE
CHECK	<i>(Signature)</i>	<i>3/21</i>		
APPD	<i>M. Summers</i>	<i>3/30</i>		
APPD				

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Warp									
1	*X				10.0		8.8*	69	Little smoke * There was insufficient material to run all tests. ** Time is from beginning of ignition to 10 inches burned.
2	*X				8.0		66.0	7.3	
3	X				9.0		85.5	6.3	
4		X							
5		X							
6		*X							
Fill									
1	*X				10.0		8.7*	69	
2	*X				10.0		96.2	6.2	
3	X				10.0		85.0	7.1	
4		X							
5		X							
6		*X							

Table 2

C/S
A3-731
D6-1084
D6-6250 TW
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Shoulder Harness Webbing MAT'L TYPE Textile RML

IDENTIFICATION COLOR CODE, BAC NO. Tan MATERIAL Nylon

MANUFACTURER Cummings & Sander - Pacoima, Calif PROPOSED USE

TEST METHODS AND Test Method: D6-8099 Flame Resistance
 REQUIREMENTS Requirement: Shall not exceed 4 in/min. when tested in the horizontal position.

DEVIATION FROM TEST METHOD

1 2 0.081 thick x 2 inches wide
Suppliers Part #9400A-6-143

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
	X		150 <u>3</u>		3.0	3.0	832 <u>4</u>	0.72	Little smoke and flame. Melting and dripping. The drippings burned. <u>3</u> 1" hexagonal screen used to support specimen <u>4</u> 1/4 mesh screen used to support to specimen.
	X						458 <u>3</u>	1.31	
	X						451 <u>3</u>	1.33	
	X								

CALC		REVISED	DATE
CHECK	S. Michalski	12/26/67	
APPD			
APPD			

c/86-7612-
 4-528
 D6-1084
 D6-6250TN
 PAGE

39

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE									
IDENTIFICATION	Webbing 1	MAT'L TYPE	Textile						
IDENTIFICATION COLOR CODE, BAC NO.		MATERIAL							
Gray-Light		Nylon							
MANUFACTURER		PROPOSED USE							
4		Shoulder Harness (0108 Reel)							
TEST METHODS AND REQUIREMENTS									
Test Method: D6-8099 Flame Resistance.									
DEVIATION FROM TEST METHOD									
1 .035" thick x 1.94" wide 4 Webbing supplied by Pacific Scientific Company for flame resistance testing.									
SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
2	X						340	1.76	2 Used 1" mesh wire screen to support specimen.
3	X		18		.88	.88			
3	X		6		.75	.75			3 Used clamps to support specimen described in D6-8099.
3		X					126	4.76	Little smoke. Little to moderate size flame. Melting and dripping.

CALC	Michelski	1-12-68	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
 6-7612-4-1046
 06-1084
 06-6250TN
 PAGE

40

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Webbing 1 MAT'L TYPE Textile MML

IDENTIFICATION COLOR CODE, BAC NO. Light Gray MATERIAL Nylon

MANUFACTURER Pacific Scientific Company 2 PROPOSED USE Shoulder Harness (0101 Reel)

TEST METHODS AND REQUIREMENTS Test Method: D6-8099 Flame Resistance. Note: Used 1" mesh wire screen to support specimen in the horizontal position.

DEVIATION FROM TEST METHOD
1 0.041" thick x 1.75" wide.
2 Webbing supplied by Pacific Scientific Company for flame resistance testing.

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
		X					421	1.42	Used 1" hex. screen.
	X						200	2.89	Little smoke. Little to moderate flame. Melted and dripped.

CALC	Michalski	1-12-68	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
 6-7612-4-1046
 D6-1084
 D6-6250TN
 PAGE

41

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE									
IDENTIFICATION	Webbing	MAT'L TYPE	Textile	RML					
IDENTIFICATION COLOR CODE, BAC NO.	Light Gray	MATERIAL	Nylon						
MANUFACTURER		PROPOSED USE	Seat Belt						
TEST METHODS AND REQUIREMENTS	Test Method: D6-8099 Flame Resistance. Note: Used 1" mesh wire screen to support specimen in the horizontal position.								
DEVIATION FROM TEST METHOD	<p>Ⓐ 0.058" thick x 2" wide.</p> <p>Ⓑ Webbing supplied by Pacific Scientific Company for flame resistance testing.</p>								
SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
	X		11			.37			Little smoke. Little to moderate size flame. Melting and dripping. The drippings burned.
	X		3			.25			
	X		4			.25			
	X		7			.37			
		X					372	1.61	

CALC	Michalski	1-12-68	REVISED	DATE
CHECK				
APPD				
APPD				

C/B
 6-7612-4-046
 D6-1084
 D6-6250TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

ML

MAT'L TYPE Textile

IDENTIFICATION Seat Belt - Flameproofed

MATERIAL Nylon

IDENTIFICATION COLOR CODE, BAC NO. Brown

PROPOSED USE

MANUFACTURER Phoenix Trimming Co.

TEST METHODS AND REQUIREMENTS Test Method: D6-8099 Flame Resistance Requirement: Project Memo 12.36. Shall extinguish in 30 seconds or less. Char length shall not exceed 4 inches in the horizontal and 7 inches in the vertical.

DEVIATION FROM TEST METHOD

Size: 0.063 x 2" wide. Vendor No. WN-1655. Boeing No. 60B50046.


Test results before dry cleaning.

Test results after dry cleaning three times.


SAMPLE NO.	MATERIAL POSITION	VERT.	HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	x			0		.37	.37			
	x			7		.75	.75			
	x			15						
	x			7						
	x			12						
				6		.75	.50			
	x			7		1.50	.50			
	x			4		1.00	.50			
	x			3		1.37	.50			
3						10		539	1.11	

CALC		REVISED	DATE	5-7612-4 1364 06-1084 06-6250TN R.A.R.
CHECK	S. Michalski	5-5-68		
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TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE



IDENTIFICATION Webbing - Cargo Door Barrier  MAT'L TYPE Textile EML

IDENTIFICATION COLOR CODE, BAC NO. Light Grey MATERIAL Nylon

MANUFACTURER Supplied by C. R. Daniels PROPOSED USE 

TEST METHODS AND REQUIREMENTS Test Method: D6-8099 Flame Resistance
Requirement: Shall not exceed 4 in/min. when tested in the horizontal position.

DEVIATION FROM TEST METHOD

  Webbing Dimensions: 0.05 thick x 1 inch wide
Webbing used in Cargo Door Barrier Assembly #65-12243

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
		X					13'	0.77	Little smoke. Little to moderate flame. Melted and dripped. Drippings continued to burn.
		X					10" 8' 33"	1.18	

CALC		REVISED	DATE
CHECK	S. Michalski	12/26/67	
APPD			
APPD			

c/86-7612-4-528
D6-1084
D6-6250IN
PAGE


TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Nylon Webbing  MAT'L TYPE Textile EML

IDENTIFICATION COLOR CODE, BAC NO. Olive Green MATERIAL Nylon

MANUFACTURER PROPOSED USE Cargo Netting

TEST METHODS AND Test Method: D6-8099 Flame Resistance Note: Screen
 REQUIREMENTS (1" hexagonal mesh) was used to support the specimen.
 Requirement: Shall not exceed 4 in/min, when tested in the horizontal position

DEVIATION FROM TEST METHOD
 MIL-W-4088 Type XVII (0.053 thick x 1 inch wide)

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	X					301	1.99	Little smoke. Moderate flame. Melting and dripping. Drippings continued to burn.
	X					309	1.94	
	X					326	1.84	

CALC		REVISED	DATE
CHECK	S.Michalski	12/26/67	
APPD			
APPD			

c/86-7612-4-528
 D6-1084
 D6-62507N
 PAGE

CATEGORY 2

FABRICS: NON-DECORATIVE

TESTED AT 1575°F, USING
NATURAL GAS.

FABRICS, UNCOATED

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	CCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				CCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
S/408 Safilite, special finish glass fabric, (Flight Insulation, Inc.)	0	0	1.4	-	-	-	-	-		
S/471 Safilite, special finish glass fabric, (Flight Insulation, Inc.)	0	0	1.0	-	-	-	-	-		
S/471G Safilite, special finish glass fabric, (Flight Insulation, Inc.)	0	0	1.0	-	-	-	-	-		
P-481 Velcro Tape, Pile (Hartwell Corp.)	2	0	0.3	0.5	-	-	-	-		
P-482 Velcro Tape, Pile precoat- ed with adhesive (Hartwell Corp.)	3	0	0.1	0.6	-	-	-	-		
H-485 Velcro Tape, Hook (Hartwell Corp.)	13	0	2.3	3.3	-	-	-	-		
H-486 Velcro Tape, Hook precoat- ed with adhesive (Hartwell Corp.)	78	0	12.0*	-	-	-	-	-	*Entire specimen	
H-485 & P-481 Velcro Tape Closure (Hartwell Corp.)	18	0	0.5	2.3	-	-	-	-		
H-485 & P-482 Velcro Tape Closure precoat- ed with adhesive (Hartwell Corp.)	6	0	0.5	1.7	-	-	-	-		
Velcro Tape - Nomex Base & Pile, Nylon Hook (Hartwell Corp.)										
H-450 Hook	36	0	10.0*	-	-	-	-	-	*Entire specimen	
P-449 Pile	5	0	1.3	3.9	-	-	-	-		
P-449 & H-450	8	0	2.7	3.9	-	-	-	-		
Velcro Tape - Nomex & Stainless Hook & Loop (Hartwell Corp.)										
Hook	0	1	1.5	-	-	-	-	-		
Loop	0	3	1.5	-	-	-	-	-		
Velcro Nylon Tape Closure (Hartwell Corp.)										
Hook	1	0	2.0	-	-	-	-	-		
Loop	44	0	5.0	-	-	-	-	-		
Velcro Tape, 2 in., White, #V-12-1 (80)-200 (Hook), & #V-12-300 (Pile) (Hartwell Corp.)	(1) 56 (2) 5 (3) 26	0	7.3 4.3 1.0	-	-	-	-	-	(1) Hook (2) Pile (3) Hook & Pile	
Felt, DPM 577-1 Hard White, 1/8" C-F-206, Type 1, Class 16R3	4	0	.1	1.0	6	0	2.7	3.4		
Felt, DPM 577-3, 1/8" Grey C-F-206 Type 1, Class 16R3	6	0	.2	1.0	8	12	3.0	3.6		
Felt, DPM 577-13, 1/8" Grey C-F-206, Type 1, Class 9R4	70	0	12*	-	-	-	-	-	*Entire specimen	
Felt, DPM 577-5L, 3/64" Hard Grey C-F-206, Type 1, Class 16R3X (Western Felt Co.)	52	0	12*	-	-	-	-	-	*Entire specimen	
Felt, DPM 577-50, 1/16" White C-F-206, Type 1, Class 16R3X	59	0	12*	-	-	-	-	-	*Entire Specimen	
Polypropylene Felt (American Felt Co.)	46	0	8.5*	-	-	-	-	-	*Entire specimen dripped and burned.	
Dacron Felt (American Felt Co.)	76	0	6.2	-	-	-	-	-	Dripped and Burned	

CATEGORY 3

FABRICS: COATED, INDUSTRIAL

TESTED AT 1450°F, USING
PROPANE GAS.

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

6768
MML

IDENTIFICATION FS-821

MAT'L TYPE

IDENTIFICATION COLOR CODE, BAC NO.

MATERIAL Rubber Coated Fabric

MANUFACTURER B. F. Goodrich

PROPOSED USE

TEST METHODS AND REQUIREMENTS

D6-8099

DEVIATION FROM TEST METHOD

CALC		REVISED	DATE
CHECK			
APPD			
APPD			

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1ply-1	X		0	10	1/8				
1 " -2	X		0	9	1/8				
1 " -3	X		0	11	3/16				
1 " -4		X	0	10					
1 " -5		X	0	2					
1 " -6		X	0	10					
2ply-1	X		0	10	0				
2 " -2	X		0	10	0				
2 " -3	X		0	7	0				
2 " -4		X	0		0				
2 " -5		X	0		0				
2 " -6		X	0		0				
4ply-1	X		0	0	0				
4 " -2	X		0	0	0				
4 " -3	X		0	0	0				
4 " -4		X	0		0				
4 " -5		X	0		0				
4 " -6		X	0		0				

PAGE 4-434

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE									
IDENTIFICATION Shelter - Lite #3		MAT'L TYPE Textile		RML					
IDENTIFICATION COLOR CODE, BAC NO. Grey		MATERIAL Vinyl Coated Nylon Fabric							
MANUFACTURER Domestic Film Products Corp.		PROPOSED USE Cargo Doorway Barrier #65-12243							
TEST METHODS AND REQUIREMENTS		Test Method: D6-8099 Flame Resistance Requirement: Shall not exceed 4 in/min. when tested in the horizontal position.							
DEVIATION FROM TEST METHOD									
SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Warp 1	x		0		1.75	1.0			Horizontal and Vertical Moderate white and black smoke evolved.
Warp 2	x		2.0		1.63	1.12			
Warp 3	x		5.0		1.25	1.00			
Fill 1	x		3.0		1.0	.75			
Fill 2	x		4.0		1.25	1.0			
Fill 3	x		2.0		1.50	.88			
Warp 1		x	1.0		3.0	2.12			
Warp 2		x	2.0		2.75	2.00			
Warp 3		x	1.0		3.25	2.00			
Fill 1		x	0		5.0	3.0			
Fill 2		x	6.0		3.75	2.5			
Fill 3		x	12.0		4.00	2.75			

CALC			REVISED	DATE
CHECK	S. MICHALSKI	12-26-	67	
APPD				
APPD				

c/86-7612-4-528
06-1084
06-6250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Stair Tread 1 MAT'L TYPE Coated Fabric MML

IDENTIFICATION COLOR CODE, BAC NO. 3 MATERIAL 1

MANUFACTURER 3M Company PROPOSED USE Non-Slip Walking Surface

TEST METHODS AND REQUIREMENTS
 Test Method: D6-8099 Flame Resistance
 Requirement: Shall not exceed 4 in/min. when tested in the horizontal position.

DEVIATION FROM TEST METHOD
1 Safety Walk Non-Slip Fabric Mineral Coated Type A Medium ALP3. Approximately 0.030 thick. Sandpaper surface one side.

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
	X		7.7		.75	.63			1. Horizontal: Little smoke. Moderate flame.
	X		10.0		.87	.75	47.0	12.75	
	X		6.7		.75	.63	50.2	11.95	2. Vertical: Burned with a large flame. Little to moderate black smoke.
	X						48.1	12.45	

CALC	S. Michalski	11-30-64	REVISED	DATE
CHECK				
APPD				
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C/S
 6-7612-4-470
 D6-1084
 D6-6250TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

BML

IDENTIFICATION Duracote 603-11 Vinyl-Coated Nylon MAT'L TYPE Fabric

IDENTIFICATION COLOR CODE, BAC NO. BMS 8-115 MATERIAL

MANUFACTURER Duracote Corp. PROPOSED USE Insulation Blanket Cover

TEST METHODS AND REQUIREMENTS D6-8099

DEVIATION FROM TEST METHOD

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SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1a	✓		1.0	3.0	1-1/2"	2-1/2"			Heavy, black smoke emitted as material burned away from the flame.
1b	✓		0.0	0.0	3-1/2"	5"			
1c	✓		0.0	0.0	5"	7-3/8"			
2a		✓	0.0	2.0	3/4"	1"			Material burned away from the flame and extinguished.
2b		✓	0.0	0.0	3/4"	1"			
2c		✓	0.0	0.0	1/2"	7/8"			

e/86-7612
 6-278
 D6-8099
 BMS 8-115
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Dantex 1000 Vinyl-Coated Nylon MAT'L TYPE Fabric FABRIL EML

IDENTIFICATION COLOR CODE, BAC NO. None MATERIAL

MANUFACTURER Dantex PROPOSED USE Insulation Blanket Cover

TEST METHODS AND REQUIREMENTS FSSR #453

DEVIATION FROM TEST METHOD

Only one specimen was tested as samples were limited.

CALC			REVISED	DATE
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SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
3a	45°	Angle	0.00	0.00					Burned through in 5 seconds and failed the test.

C/S 6-7612-4-278
 D6-8099
 BMS 8-115
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Durascode 603-11 Vinyl-Coated Nylon MAT'L TYPE Fabric FML
 IDENTIFICATION COLOR CODE, BAC NO. BMS 8-115 MATERIAL
 MANUFACTURER Durascode Corp. PROPOSED USE Insulation Blanket Cover

TEST METHODS AND REQUIREMENTS FSSR #453

DEVIATION FROM TEST METHOD

Only one specimen tested.

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
4a	45° Angle	0.00	0.00					Burned through in 5 seconds and failed test.

CALC			REVISED	DATE	C/S 6-7612-4-278 D6-8099 BMS 8-115 PAGE
CHECK					
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TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION BMS 8-95, Type I MAT'L TYPE Coated Fabric RML
 IDENTIFICATION COLOR CODE, BAC NO. MATERIAL, Hypalon Coated Nylon Fabric
 MANUFACTURER Chemical Rubber Products PROPOSED USE Insulation Covering

TEST METHODS AND REQUIREMENTS Test Method: D6-8099, Flame Resistance
Requirement: Shall extinguish in 2 seconds. Char length shall not exceed 6.5 inches.

DEVIATION FROM TEST METHOD

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Warp									
1	X		1.0			2.5			Char length due to ignition flame.
2	X		1.0			1.5			
3	X		1.0			1.3			
4		X	0			4.0			
5		X	0			6.0			
6		X	0			4.0			
Fill									
1	X		1.0			.63			
2	X		1.0			.90			
3	X		1.0			.50			
4		X	0			4.0			
5		X	0			5.0			
6		X	0			3.0			

CALC	<u>S. Nichols</u>	<u>6-23-67</u>	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
 6-7612-4-887
 D6-1084
 D6-625088
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION BMS 8-7, Type I and II MAT'L TYPE Coated Fabric EML
 IDENTIFICATION COLOR CODE, BAC NO. MATERIAL, Neoprene Coated Nylon Fabric
 MANUFACTURER PROPOSED USE Insulation Covering

TEST METHODS AND REQUIREMENTS Test Method: D6-8099 Flame Resistance

Requirement: Shall extinguish in 2 seconds or less. Char length shall not exceed 2" in the horizontal and 6" in the vertical. Afterglow: 7 seconds or less.

DEVIATION FROM TEST METHOD

CALC S.	Michalski	11-9-67	REVISOR	DATE
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SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1		X	0	0		0.9-1.0			1 Type I
1	X		0	0		3-4.3			2 Type II
2		X	0	0		1.3-1.5			
2	X		0	0		2.3-4.2			

C/S
 6-7612-4-387
 D6-1084
 D6-6250TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION BMS 8-47, Type I, III, IV MAT'L TYPE Coated Fabric EMI

IDENTIFICATION COLOR CODE, BAC NO. _____ MATERIAL Vinyl Coated Fabric

MANUFACTURER _____ PROPOSED USE Acoustical Insulation

TEST METHODS AND REQUIREMENTS
 Test Method: D6-8099 Flame Resistance
 Requirement: Shall extinguish in 2 seconds when tested in the vertical position. Afterglow shall not exceed 6 seconds. The char length shall not exceed 2.3 inches.

DEVIATION FROM TEST METHOD

SAMPLE NO.	MATERIAL POSITION		EATING TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1	X		1-5	0	0.9	0			Type I
1		X	1-2	0	1.5-2.0	0			Type III
2		X	0	0	.9-1.0	0			Type IV
2		X	0	0	2.0-2.4	0.3			
3		X	0	0	0.8	0			
3		X	0	2	1.0	.2			

CALC	S. Michalski	11-9-67	REVISED	DATE
CHECK				
APPD				
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C/S
 6-7612-4-387
 06-1084
 06-6250TN
 PAGE

CATEGORY 3

FABRICS: COATED, INDUSTRIAL

TESTED AT 1575°F, USING
NATURAL GAS.

CAT-3
B-125

INDUSTRIAL COATED FABRICS & INSULATION BLANKET MATERIALS

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	CCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				CCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
ES-534H Silicone Coated Glass DMS 1576, Type 2 Permacel	1	0	0	2.7	-	-	-	-		
SRG-2114 Silicone rubber coated glass, Red (4585-2-1) DC S-2316, DMS 1576 Minn. Mining & Mfg. Co.	1	0	.1	-	-	-	-	-		
SRG 1008-1/C Silicone rubber coated glass, red (4585-1.1) DC S-2316 Type 1, DMS 1576 Minn. Mining & Mfg. Co.	0	0	.1	-	-	-	-	-		
SRG1108-1/C Red 701 DMS 1576 Minn. Mining & Mfg. Co.	0	0	0	-	-	-	-	-		
SRG-1810, Lot 5213 Minn. Mining & Mfg.	(1) 3 (2) 4	0	.6 .5	2.4 2.2	-	-	-	-		
Same as above, aged 6 Hrs. at 500°F. Minn. Mining & Mfg. Co.	(1) 2 (2) 3	0	.9 .6	1.8 2.0	-	-	-	-		
85-001 Viton coated glass cloth Du Pont Fairprene	0	2	1.9	2.3	-	-	-	-		
410-128 Teflon coated glass cloth .010 Du Pont	0	0	1.2	1.6	-	-	-	-		
210-204-1 Hypalon coated glass cloth .012 Du Pont	0	15	4.2	4.4	-	-	-	-		
Beta-glass fabric coated with L-3203-6 Fluorel base coating Raybestos-Manhattan	-	-	-	-	0	0	0.4	2.5		
21273 Neoprene coated glass cloth Chemical Rubber Products	0	0	0	-	-	-	-	-		
CRP 21273, 2 pieces laminated together w/Gripmount K-44 CRP	20	0	2.3	-	-	-	-	-		
G-211 Coated Glass Flexfirm	0	1	0	3.8	-	-	-	-		
CM-609-1, silicone coated Dacron Los Angeles Standard Rubber Co. Inc.	76	0	.5	-	27	0	2.2	-		
CM-632-1, silicone coated Dacron, Los Angeles Standard Rubber Co.	22	0	.3	-	20	0	2.0	-		
CM-809, silicone coated Dacron, Los Angeles Standard Rubber Co.	24	0	.4	-	18	0	2.2	-		
CM-810, silicone coated Dacron, Los Angeles Standard Rubber Co.	25	0	.4	-	18	0	1.9	-		
84-001 Viton on Dacron Du Pont	0	2	2.6	3.6	-	-	-	-		
220-182-2 Grey Viton on Teflon fabric Fepfilm Du Pont	0	7	1.2	1.5	-	-	-	-		
98-101 Teflon coated Nomex .010, "Armalon" Du Pont	0	2	1.5	2.4	-	-	-	-		
88-003 F. R. Butyl on Nomex fabric Du Pont Fairprene	0	16	3.7	5.2	-	-	-	-		
01-030 Haartz-Mason Develop- ment Material	(1) 0 (2) 2 (3) 0 (4) 0	1 0 1 1	4.2 4.9 4.5 5.3	- - - -	- - - -	- - - -	- - - -	- - - -	(1) Not rolled - A Direction (2) Not rolled - B Direction (3) Rolled - A Direction (4) Rolled - B Direction	
BV 63417, Alden Rubber Co.	(1) 0 (2) 0	0 0	6.5 7.5	- -	0 0	0 0	7.2 7.6	- -		
687 Neoprene Coated Nylon, BMS-8-7 Type 1 Batch 5874 Alden Rubber Co.	(1) 0 (2) 0	1 1	2.8 3.9	- -	- -	- -	- -	- -	(1) Warp (2) Fill	
Paritan Plastic Co. #2 Sample	(1) 0 (2) 0	0 0	6.4 6.4	6.4 6.4	- -	- -	- -	- -	(1) Warp (2) Fill	

B-1111

INDUSTRIAL COATED FABRICS & INSULATION BLANKET MATERIALS

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	CCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				CCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
Puritan Plastic Co. Insul. Blanket Covering	(1) 0 (2) 0	0	5.9 6.3	-	-	-	-	-	(1) Warp (2) Fill	
600.TW.201 Duracote Insul. Blanket Covering	7	0	11.0	-	-	-	-	-		
ST-7235 Permacel, Insul. Blanket Covering	0	0	6.1	-	-	-	-	-		
3M lab #SFN 9003 light weight insulation blanket material (2.5 oz) Minn. Mining & Mfg. Co.	0	0	4.7	-	-	-	-	-		
MVN 4702 3 M light weight insula- tion blanket material (2.5 oz.) Minn. Mining & Mfg. Co.	0	0	4.3	-	-	-	-	-		
AN-3 Aclar-scrim light weight insu- lation covering. Orcon Corp.	0	0	3.3	-	-	-	-	-		
MN-2 Mylar-scrim, light weight insulation blanket material. Orcon Corp.	0	0	2.5	-	-	-	-	-		
66-363 Light weight insulation blanket material (2.5 oz.) Cooley Inc.	0	0	3.6	-	-	-	-	-		
ASF-622 Armortite vinyl-coated fabric. Cooley, Inc.	0	0	1.0	-	-	-	-	-		
Plastic Sheet, vinyl Copolymer, thin Clipay Corp., Cinn., Ohio	0	0	5.8	-	-	-	-	-		
Plastic Sheet, vinyl Copolymer, thin over PF105 batting Clipay Corp., Cinn., Ohio	-	-	(1)	-	-	-	-	-	(1) Specimen totally consumed within the 12 sec. flame exposure time	
Polyethylene film tested around PF-105 Darling Mfg. Co.	9	0	12.0*	-	-	-	-	-	*Entire specimen	
GT-340 Heat sealable film G. T. Schjeldahl	3	11	4.8	-	-	-	-	-		
GT-340 Heat sealable film around PF-105 fiberglass batting. G. T. Schjeldahl	0	5	4.0	-	-	-	-	-		
Vyline - PVC film Vyline Corp.	0	0	4.5	-	-	-	-	-		
Vyline-PVC film around PF-105 batting Vyline Corp.,	0	0	4.0	-	-	-	-	-		
#EX.F3118 Scotchpak film Minn. Mining & Mfg. Co.	0	0	5.2	-	-	-	-	-		
#EX.F3118 Scotchpak film around PF-105 batting Minn. Mining & Mfg. Co.	62	0	12.0*	-	-	-	-	-	*Entire specimen	
96 Scotchpak, polyethylene/ Mylar film Minn. Mining & Mfg. Co	0	0	5.8	-	-	-	-	-		
96 Scotchpak, polyethylene/ Mylar film around PF105 batting Minn. Mining & Mfg. Co.	12	0	12.0*	-	-	-	-	-	*Entire specimen	
33C Aclar 1 mil Allied Chemical	0	0	1.5	-	-	-	-	-		
Aclar 2 mil Allied Chemical	0	0	1.7	-	-	-	-	-		
33C Aclar 1/2 Mil Allied Chemical	0	0	5.9	-	-	-	-	-		
33C Aclar 1/2 Mil Around PF 105 Batt	0	0	3.9	-	-	-	-	-		
33C Aclar 3/4 Mil Allied Chemical	0	0	4.9	-	-	-	-	-		
33C Aclar 3/4 Mil PF 105 Batt	0	0	2.3	-	-	-	-	-		

INDUSTRIAL COATED FABRICS & INSULATION BLANKET MATERIALS

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	CCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				CCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
NF 28, vinyl coated Nylon, 6 oz.	(1) 0 (2) 0	5 10	6.7 6.8	- -	- -	- -	- -	- -	(1) Warp (2) Fill	
NF 27, vinyl coated Nylon, 9 oz.	(1) 42	0	9.3	-	-	-	-	-	(1) Warp (2) Fill	
Aeron 218, vinyl coated Nylon, 16 oz	(1) 16	0	8.3	-	-	-	-	-	(1) Warp (2) Fill	
DC-26 Flexfirm DC-26 insulation blanket cover DMS 1636 Flexfirm	0	8	5.3	-	-	-	-	-		
DC 23.25 Flexfirm DC 23.25 insulation blanket cover DMS 1636 Flexfirm	0	2	5.5	-	-	-	-	-		
20-21-2 CRP-20-21-2 coated fabric, DMS 1636 Chemical Rubber Products	1	0	3.8	-	-	-	-	-		
Vinyl coated Nylon cloth, color 36440 light gull gray DMS 1693, Type U Flexfirm	12	2	12.0*	-	-	-	-	-	*Entire specimen	
20-47-1 Green -DMS 1845 Chemical Rubber Products	0	0	.5	-	-	-	-	-		
C-26 Residrol, DMS 1845 Flexfirm Prod. Inc.	0	0	0	-	-	-	-	-		
Flexfirm DC-22 lab. No. 27855, DMS 1843 Flexfirm	0	-	5.0	-	-	-	-	-		
Flexfirm Aeronel DC22 (2.5 oz). DMS 1843 Flexfirm	3	0	7.5	-	-	-	-	-		
CRP 15-110-8, DMS 1843 Chemical Rubber Products	0	0	3.7	-	-	-	-	-		
CRP 15-110-9, DMS 1843 Chemical Rubber Products	0	0	4.7	-	-	-	-	-		
CRP 15-110-10, DMS 1843 Chemical Rubber Products	1	0	7.1	-	-	-	-	-		
CRP 21276, 2.5 oz. material, DMS 1843 Chemical Rubber Products	0	-	6.7	-	-	-	-	-		
21276 Batch 20-59-1 Insul. Blanket Covering Chem. Rubber Product	0	0	6.9	-	-	-	-	-		
RD 21276 Roll 480112, Cure Date 11-30-67, Chem. Rubber Prod.	(1) 0 (2) 0	0 2	7.3 6.6	- -	- -	- -	- -	- -	(1) Warp (2) Fill	
21276 Shipment #215640 Chem Rubber Prod.	(1) 0 (2) 0	0 0	6.5 8.4	- -	- -	- -	- -	- -	(1) Warp (2) Fill	
CRP 21368, Register 295428	(1) 0 (2) 0	0 0	7.3 7.5	- -	0 0	0 0	8.0 8.0	- -		
CRP 21368, Lot #7 3236, 5 yds.	(1) 0 (2) 0	0 0	7.4 8.5	- -	0 0	0 0	8.6 8.8	- -		
CRP 21276 (21368) submitted 12-67	(1) 0 (2) 0	0 1	6.2 7.4	- -	- -	- -	- -	- -		
CRP 21276, Lab Sample 20-93-2	(1) 0 (2) 0	0 1	7.5 7.3	- -	0 0	0 0	8.3 8.4	- -		
X-425-1, Batch 5963, Cordo Div. Ferro Corp.	(1) 0 (2) 0	2 1	6.0 6.8	- -	- -	- -	- -	- -		
Hypalon, White, fire retardant, 72-011, 011"	2	0	2.6	3.2	-	-	-	-		
Hypalon coated Nylon X-408 batch #5381 (BMS-8-95A-Type 1), DMS 1843 Cordo Div., Ferro Corp.	3	5	9.7	-	-	-	-	-		

INDUSTRIAL COATED FABRICS AND INSULATION BLANKET MATERIALS

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	CCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				CCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
Trojan #53167-1 tested around PF-105 Trojan Packaging Corp.	16	0	12.0*	-	-	-	-	-	*Entire specimen	
#14 F. R. Canoline tested around PF-105, Central Bag & Supply Co.	40	1	12.0*	-	-	-	-	-	*Entire specimen	
Lead-filled, vinyl coated Dacron, Sample A, .6 lbs/ cu. ft. J. Schneller & Assoc.	-	-	-	-	0	0	2.8	-		
Lead-filled, vinyl coated Dacron, Sample B, .7 lbs/cu. ft. J. Schneller & Assoc.	-	-	-	-	0	2	2.5	-		
Avisco Fire Retardant Batt, Rayon	(1) 0 (2) 24	0 180+	4.5 10.0*	-	-	-	-	-	*Entire specimen (1) with fire retardant (2) without fire retardant	
PF-105-500 Batt, Melamine Binder Owens Corning	0	0	.1	-	-	-	-	-		
PF-105-700 Batt Silicone Binder Owens Corning	0	0	.2	-	-	-	-	-		
Blanket, Insulation DMS 1703 over PF 105	14	0	1.0	-	-	-	-	-		
Blanket, Insulation	2	0	4.0	-	-	-	-	-		
Blanket, Insulation, 120 cloth with PF-105-700 (pink) batting	0	0	0.5	-	-	-	-	-		
Blanket, Insulation, 120 cloth, with FB-3(brown) batting	0	0	0.5	-	-	-	-	-		
Blanket, insulation, DMS 1845 (green) cloth, with PF-105-700 (pink) batting.	0	0	2.5	-	-	-	-	-		
Blanket, Insulation, DMS 1445 (green) cloth, with FB-3(brown) batting.	0	0	2.5	-	-	-	-	-		
Blanket Insulation: DMS 1576, Type 2 fabric, with PF-105-700 batting.	3	0	0.1	-	-	-	-	-		
Blanket, Insulation: DMS 1576 Type 1 fabric, with FB-3 batt- ing.	3	0	0.1	-	-	-	-	-		
Blanket, Insulation: DMS 1376, Type 2 (Cosley) fabric, with PF-105 (yellow) batting.	1	0	0.1	-	-	-	-	-		
Blanket, Insulation: DMS 1636, Class 3 1/4 (grey) fabric, with PF-105 batting.	6	0	5.0	-	-	-	-	-		
Blanket, Insulation: DMS 1836 Class 3 1/4 fabric (Flexform), with PF-105 batting	10 56 60 22	0 0 0 0	5.8 10* 10* 9 "	-	-	-	-	-	*Entire specimen	
Insulation Blanket DMS 1843 (Tan .CRP 21276) with PF-105 (Yellow) Batting	1	0	5.9	-	-	-	-	-		

INDUSTRIAL COATED FABRICS AND INSULATION BLANKET MATERIALS

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	CCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				CCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
DMS 1843, 68-1 Paritan Plastex	(1) 0	0	5.1	5.1	0	0	5.8	5.8	(1) Warp	
	(2) 0	0	6.1	6.1	0	0	6.2	6.2	(2) Fill	
CPR 21368, Reg. No 314198	(1) 0	0	6.3	6.3	-	-	-	-	(1) Warp	
	(2)	0	6.8	6.8	-	-	-	-	(2) Fill	
Lead Filled Neoprene coated Nylon #20-45-1	44	12	6*	-	-	-	-	-	* Entire specimen	

CATEGORY 4

FABRICS: COATED, DECORATIVE;
LEATHERS: ARTIFICIAL AND GENUINE

TESTED AT 1450°F, USING
PROPANE GAS.

59

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Vinyl Fabric, Expandex 41

MAT'L TYPE Textile

BAC NO. Yellow

MANUFACTURER Ford Company

MATERIAL Vinyl Coated Fabric

PROPOSED USE

TEST METHODS AND REQUIREMENTS BMS 8-87: Shall extinguish within 10 seconds when tested horizontally and vertically. Char length shall not exceed 4.5 inches.

DEVIATION FROM TEST METHOD

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
1	X			10		67	9.00	
2	X			10		63	9.52	
3	X			10		52	11.62	
1	X			10		287	2.09	Large amount of smoke evolved.
2	X			10		283	2.12	
3	X			10		307	1.95	

CALC	S. Michalski	1/12/68	REVISED	DATE
CHECK				
APPD				
APPD				

E/S
6-7612-4-1047
D6-1084
D6-6250TN
PAGE

60

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE											
IDENTIFICATION		Vinyl Coated Fabric			MAT'L TYPE		Textile			NML 7599	
IDENTIFICATION COLOR CODE, BAC NO.		10-60782-226			MATERIAL		▲				
MANUFACTURER		J. Schneller			PROPOSED USE		Decorative Interior				
TEST METHODS AND REQUIREMENTS		BMS 8-62: Shall extinguish within 10 seconds when tested horizontally and vertically. Char length shall not exceed 6.5 inches.									
DEVIATION FROM TEST METHOD		▲ Vinyl Coated Fiberglass Fabric, Perforated and Non-Perforated.									
SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES		CHAR LENGTH INCHES		BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.									
1*	X		10	0	0.50	0	0	0	0		*Non-Perforated **Perforated
2*	X		8	0	6.00	0	0	0	0		
3*	X		3	0	4.50	0	0	0	0		
1*		X	0	0	1.00	0	0	0	0		
2*		X	0	0	1.75	0	0	0	0		
3*		X	0	0	1.25	0	0	0	0		
1**	X		15	0	7.5	0	0	0	0		
2**	X		10	0	6.5	0	0	0	0		
3**	X		8	0	5.0	0	0	0	0		
1**		X	0	0	2.00	0	0	0	0		
2**		X	0	0	1.50	0	0	0	0		
3**		X	0	0	1.50	0	0	0	0		

CALC	G.S. Michalski	1/12/68	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
6-7612-4-1047
06-1084
06-6250TN
PAGE

16

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Vinyl Fabric, Expendex 41 MAT'L TYPE Textile **BML**

IDENTIFICATION COLOR CODE, EAC NO. Yellow MATERIAL Vinyl Coated Fabric

MANUFACTURER Ford Company PROPOSED USE

TEST METHODS AND REQUIREMENTS BMS 8-87: Shall extinguish within 10 seconds when tested horizontally and vertically. Char length shall not exceed 4.5 inches.

DEVIATION FROM TEST METHOD

Flameproofed by California Flameproofing and Processing Co.

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
			0	0	0.25	0			
	x		0	0	1.00	0			
	x		0	0	1.00	0			
			9.4	0	3.75	0			
x			6.7	0	3.00	0			Moderate smoke. Some jetting of ignitable gases.
x			8.2	0	4.50	0			

CALC.		REVISED	DATE
CHECK	S. Michaleki	3-13-68	
APPD			
APPD			

6-7612-4
1183
D6-1084
D6-6250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

RML

MAT'L TYPE

MATERIAL

PROPOSED USE

IDENTIFICATION See 


IDENTIFICATION COLOR CODE, BAC NO.

MANUFACTURER

TEST METHODS AND

REQUIREMENTS D6-8099 Flame Resistance. Shall extinguish. No time limit. Average char length shall not exceed 8 inches.

DEVIATION FROM TEST METHOD

 Vinyl Coated Dynel Fabric with Hi-Speed Lacquer on Decorative Face.

CALC	S.M. KIRK/LSM	2/17/67	REVISED	DATE
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SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER CLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
	X		0			2.75			
	X		0			3.125			
	X		0			3.0			
	X		0			3.625			
	X		0			2.75			

C/S
A3-598
D6-1084
D6-6250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION 1 MAT'L TYPE Vinyl coated fabric RML 5934

IDENTIFICATION COLOR CODE, BAC NO. 1 MATERIAL

MANUFACTURER Masland Duraleather PROPOSED USE Attendant seat covering

TEST METHODS AND REQUIREMENTS BMS 8-87. Shall extinguish within 10 seconds. Char length shall not exceed 4.5 inches.

DEVIATION FROM TEST METHOD

1 Masland Duraleather. Haircell Texture. NS 203EM English Manor.
Bright Finish #5432

CALC		REVISED	DATE
CHECK			
APPD			
APPD			

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Warp									
1	x		1.0	0	5.00	0.00			
2	x		1.1	0	5.25	1.00			
3	x		1.2	0	4.75	0.00			
Fill									
1	x		1.0	0	4.50	0.00			
2	x		1.1	0	4.50	2.25			
3	x		0.8	0	5.25	0.00			
Warp									
1		x	1.5	0	1.25	0.00			
2		x	1.1	0	1.25	0.00			
3		x	1.2	0	1.00	0.00			
Fill									
1		x	0.9	0	1.25	0.00			
2		x	0.6	0	1.00	0.00			
3		x	0.7	0	1.25	0.00			

A3-736

PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION 10-60199-1017 (modified) See (1) MAT'L TYPE Fabric-Coated EML 6330

IDENTIFICATION COLOR CODE, BAC NO. 750 White MATERIAL Vinyl Coated Fabric

MANUFACTURER Boeing Facilities PROPOSED USE Decorative Interior

TEST METHODS AND BMS 8-62. Shall extinguishing within 10 seconds. The char length shall not exceed 6.5 inches. REQUIREMENTS

DEVIATION FROM TEST METHOD

(1) Eastman Kodak KDA 2030 clear vinyl film (4 mil) laminated to decorative side of D10-60199-105 by the Boeing Facilities to make D10-60199-1017 (modified). D10-60199-1017 (modified) is the same as 10-60199-1017 except the latter is laminated by Duracote using an unknown 5 mil clear vinyl film.

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
1		X	0	0	1.2	1.0			1. Horizontal Large amount of smoke evolved. Strong odor. Burned length due to ignition. 2. Vertical Same as under 1. except moderate smoke evolved.
2		X	0	0	1.3	1.0			
3		X	0	0	1.4	1.1			
4		X	0	0	1.2	1.0			
5		X	0	0	1.2	1.0			
6		X	0	0	1.9	0.9			
7		X	0.7	3.0	3.5	1.8			
8	X	X	0	2.7	3.4	1.8			
9	X	X	1.0	1.8	2.7	1.7			
10	X	X	0	2.0	3.2	1.9			
11	X	X	0.8	0	2.9	1.6			
12	X	X	0	2.5	3.4	1.8			

CHK	Michael	6-8-67	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
A3-798
D6-1084
D6-6250T
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Style VT-275 Grass Cloth Embossing MAT'L TYPE Coated Fabric BML 5571
 IDENTIFICATION COLOR CODE, BAC NO. D10-60199-105 Color #1000 MATERIAL Vinyl Coated Cotton Fabric
 MANUFACTURER L. E. Carpenter PROPOSED USE Decorative Interior

TEST METHODS AND REQUIREMENTS BMS 8-62. Shall extinguish within 10 seconds in warp and fill.
 Maximum char length: 6.5 inches.

DEVIATION FROM TEST METHOD

Material flameproofed by L. E. Carpenter. This differs from the current production material which has been flameproofed by a commercial flameproofer.

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SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Warp									
1	X		0	10.3	2.0	1.6			Little smoke, burn length due to ignition. Some flash on back over area of impingement of burner. Moderate smoke, strong noxious odor.
2	X		0	11.8	1.4	1.4			
3	X		0	12.8	1.7	1.7			
4		X	0	0	1.0	1.0			
5		X	0	0	1.1	1.1			
6		X	0	0	1.2	1.2			
Fill									
1	X		0	9.2	1.3	1.3			
2	X		0	15.9	2.1	2.1			
3	X		0	18.4	1.8	1.8			
4		X	0	0	.8	.8			
5		X	0	0	1.0	1.0			
6		X	0	0	.8	.8			

C/S
 A3-619
 D6-1084
 D6-6250TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Koroseal Ambassador Crushed Grain, 32 oz MAT'L TYPE **BML**
 IDENTIFICATION COLOR CODE, BAC NO. Ivory #67241 MATERIAL Vinyl Coated Fabric
 MANUFACTURER B. F. Goodrich PROPOSED USE Armrest or Attendant Seat Covering
 TEST METHODS AND BMS 8-87, Shall extinguish within 10 seconds. Char Length: 4.5 inches
 REQUIREMENTS maximum. Afterglow: 90 seconds maximum.

DEVIATION FROM TEST METHOD

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Warp									
1	X		1	1	1.375	1.5			Horizontal: a. Moderate white smoke evolved. b. Burned length due to ignition Vertical: a. Very large amount of black and white smoke evolved. b. Some flashings. In some instances, extinguishing time is due to burning gases.
2	X		2	1	0.75	0.75			
3	X		6	1	1.38	1.75			
Fill									
1	X		5	1	1.0	1.0			
2	X		1	1	1.0	1.25			
3	X		1	1	1.38	1.50			
Warp									
1		X	4	1	4.0	2.375			
2		X	2	1	3.75	3.25			
3		X	4	1	3.50	3.38			
Fill									
1		X	3	1	3.50	3.50			
2		X	2	1	3.00	2.75			
3		X	1	1	3.00	2.75			

CALC	S. Michelski	7-18-67	REVISED	DATE
CHECK				
APPD				
APPD				

SM-29
 D6-6250 IN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

5375

RML

MAT'L TYPE

MATERIAL Vinyl Coated Fabric

PROPOSED USE

Arrest Covering

IDENTIFICATION Nausghyde Midas Blue #2

IDENTIFICATION COLOR CODE, BAC NO.

MANUFACTURER Uniroyal Co.

TEST METHODS AND REQUIREMENTS

BMS 8-87. Shall extinguish within 10 seconds. Char Length: 4.5" max. Afterglow shall not exceed 90 seconds.

DEVIATION FROM TEST METHOD

CALC		REVISED	DATE
CHECK	S. Michalski	7-17-67	
APPD			
APPD			

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Warp 1	X	0	0	.9	.9			<u>Horizontal:</u> a. Moderate white smoke evolved. b. Pungent odor. <u>Vertical:</u> a. Moderate to heavy amount of grey smoke evolved. c. Pungent odor.
2	X	0	0	.8	.4			
3	X	0	0	.3	.4			
Fill 1	X	2.7	0	.5	.5			
2	X	0.5	0	.6	.6			
3	X	4.8	0	.7	.7			
Warp 1	X	1.6	0	1.6	1.0			
2	X	1.1	0	1.3	1.25			
3	X	0.7	0	1.5	1.50			
Fill 1	X	2.8	0	2.1	2.0			
2	X	3.5	0	1.7	1.75			
3	X	1.3	0	1.4	1.25			

C/S
SM-31
D6-6250 T
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Fiberglass Style #1-24 MAT'L TYPE Vinyl coated MML 6003
 IDENTIFICATION COLOR CODE, BAC NO. BAC 206 peach MATERIAL Fiberglass
 MANUFACTURER Duracote PROPOSED USE

TEST METHODS AND REQUIREMENTS BMS 8-62 7.2

DEVIATION FROM TEST METHOD

CALC	<u>M Summers</u>	<u>8-67</u>	REVISED	DATE
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SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
A	X		0	0	3-3/8	0			Burn length due to ignition. White smoke, moderate density.
B	X		0	0	2-5/8	0			
C	X		0	0	3-5/8	0			
D		X	0	0	1-3/8	1/4			Burn length due to ignition White smoke, moderate density.
E		X	0	0	1-3/4	1/4			
F		X	0	0	1-3/8	0			

12 sec.

15 sec.

C/S
SM-56
PAGE

27

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE									
IDENTIFICATION		Navigator's Table Top		MAT'L TYPE		Textile		MIL	
IDENTIFICATION COLOR CODE, BAC NO.		MATERIAL Vinyl Coated Cotton Fabric							
MANUFACTURER		Duracote Corporation							
TEST METHODS AND REQUIREMENTS		Test Method: D6-8099 Flame Resistance							
DEVIATION FROM TEST METHOD		Duratrim, Style 148-0037, Color 981, Finish #100.							
SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Warp	X		10.0		5.0	5.0			Vertical: Moderate flame. Black and white smoke. Ignitable gases. The vinyl softened, sagged and ballooned in the ignition area. Most of the flaming took place on the fabric. Horizontal: Same as under vertical except flaming on vinyl and fabric side.
	X		26.0		7.0	6.75			
	X		27.0		6.25	2.50			
Fill	X		75.0		9.5	9.5			
	X		29.0		5.5	4.75			
	X		58.0		7.0	6.63			
Fill	X		300.0		8.0	8.0			
	X		152.0		5.25	4.75			
Warp	X		21.0		1.0	1.0	333	1.80	
	X								

Checked	Michael	1-4-68	REVISED	DATE
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c/s 6-76-2-
4-1033
D6-1084
D6-6250TW
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

EML 6003

MAT'L TYPE vinyl coated

IDENTIFICATION Dynel Style #7205-006

IDENTIFICATION COLOR CODE, BAC NO. off-white MATERIAL

MANUFACTURER Duracote PROPOSED USE

TEST METHODS AND

REQUIREMENTS

BMS 8-62 7.2

DEVIATION FROM TEST METHOD

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SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.		AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
A	X		0	0	0	4-1/8	4-1/8			Burn length due to ignition Ignition heat melted the material back. Slight white smoke
B	X		0	0	0	2-1/2	2-1/2			
C	X		0	0	0	2-5/8	2-5/8			
D		X	0	0	0	1-1/8	1-1/8			
E		X	0	0	0	1-1/8	1-1/8			
F		X	0	3	3	1-1/4	1-1/4			

12 sec.

15 sec.

C/S
SM-56
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION AM 858 B MIL 6668

MAT'L TYPE Leather

MATERIAL

PROPOSED USE Armrest Covering

MANUFACTURER Garden State Tanning Inc. Color Pink

TEST METHODS AND BMS 8-87. Shall extinguish within 10 seconds. Afterglow shall not exceed 90 seconds. Char length: 4.5" max.

DEVIATION FROM TEST METHOD

CALC		REVISED	DATE
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SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1		X			10		366	1.64	Horizontal and Vertical: a. Slight grey smoke. b. Burned length due to ignition. c. Specimens shriveled in the ignition area.
2		X	22.2	0	1 1/4	1/2			
3		X	9.6	0	1 1/4	1/2			
4		X	0	15	1.0	1/8			
5		X	37.2	80.4	2 1/4	1/2			
6		X	21.0	61.8	3 1/2	1 1/2			

c/s
SM-31
D6-6250 TM
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

BML 6668

MAT'L TYPE Leather

IDENTIFICATION AF 861A

MATERIAL

IDENTIFICATION COLOR CODE, BAC NO. Grey Color

PROPOSED USE Armrest Covering

MANUFACTURER Garden State Tanning Inc.

TEST METHODS AND REQUIREMENTS BMS 8-87. Shall extinguish within 10 seconds. Afterglow shall not exceed 90 seconds. Char Length: 4.5" max.

DEVIATION FROM TEST METHOD

COMMENTS

Horizontal and Vertical:
 a. Slight grey smoke.
 b. Burned length due to ignition.
 c. Specimens shriveled in the ignition area.

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN
1	X	0	0	1 1/2	3/8		
2	X	0	0	1 3/4	1/4		
3	X	14.4	0	1 1/4	1/4		
4	X	3.6	0	1 1/2	3/8		
5	X	16.8	60	2 1/8	1 1/4		
6	X	0	0	1 3/4	1/4		

CALC		REVISED	DATE
CHECK	S. Michalski	7-17-67	
APPD			
APPD			

c/s
SM-31
D6-6250 IN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Duralleather "Haircell", Quality 5438 MAT'L TYPE Artificial Leather EML 7317
 IDENTIFICATION COLOR CODE, BAC NO. BAG 896, Color 489-J MATERIAL Fabric Backed Vinyl
 MANUFACTURER Masland Duralleather Company PROPOSED USE Upholstery

TEST METHODS AND REQUIREMENTS BMS 8-87, Section 8.2

Materials shall be self-extinguishing within 10 seconds.
 Materials shall exhibit no flashing of flame along surface and shall give off no excessive amount of smoke.
 Maximum char length shall be 4 1/2 inches.

DEVIATION FROM TEST METHOD

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SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
1	X	10.2	0	3.75	3.75			Self-extinguishing from 8.7 to 186.7 seconds. Char length from 2.5 to 6.25 inches. Excessive amount of smoke evolved. Strong odor. No melting or dripping occurred.
2	X	10.7	0	3.50	3.50			
3	X	8.7	0	3.25	3.25			
1	X	186.7	0	6.25	6.25			
2	X	98.7	0	3.00	3.00			
3	X	90.8	0	2.50	2.50			

C/B
 6-7612-4-359
 D6-1084
 D6-6250TN
 PAGE

CATEGORY 4

FABRICS: COATED, DECORATIVE;
LEATHERS: ARTIFICIAL AND GENUINE

TESTED AT 1575°F, USING
NATURAL GAS.

FABRICS, DECORATIVE COATED

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	CCG-T-191b, METHOD 5902 12 SEC. EXPOSURE				CCG-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
GA-119 "Charcoal" Naugahyde U.S. Rubber DMS 1661	36	0	11.0*	-	-	-	-	-	*Entire specimen	
GA-105 "Bamboo" Naugahyde U.S. Rubber DMS 1661	32	0	5.6	-	-	-	-	-		
"Bexley" color EL187 gold Elastic backed vinyl Columbus Coated Fabric Co DMS 1661	5	0	4.2	-	-	-	-	-		
Colovin Golden Fleece Columbus Coated Fabric Co DMS 1661	0	0	2.3	-	-	-	-	-		
Duracote CCC-A-700E, antique blue Duracote Corp	0	-	1.0	-	-	-	-	-		
D-28 Aertrim #14 DY, Tarbar, pattern 5, .017, soft duct white, 14 oz/sq. yd J. Schneller & Assoc. DMS 1547 Type 3	0	0	0	3.6	-	-	-	-		

LEATHERS

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	COC-T-191b, METHOD 5902 12 SEC. EXPOSURE				COC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
Leather; BD-3635-A Garden State Tanning, Inc.	49	249	7.2	-	-	-	-	-		
Leather, "Ochre"; BF-980-A Garden State Tanning, Inc.	4	0	0.5	-	-	-	-	-		
Leather; BD-7216A Garden State Tanning, Inc.	57	75	6.6	-	-	-	-	-		
Leather, royal blue; BD-6491-AM Garden State Tanning, Inc.	20	4 Mins.	2.5	-	-	-	-	-		
Leather, Garden State experi- mental blue; Garden State Tanning, Inc.	36	240	9.1	-	-	-	-	-		
Leghorn Leather "V" Finish Garden State Tanning	23	180+	1.0	-	-	-	-	-		
"FV" flame resistant Garden State Tanning	0	0	0.3	-	10	118	3.3	-		
"FV" flameproofed leather Garden State Tanning	0	2	0.3	0.9	1.0	180+	6.9	7.6		
Experimental green leather #25 Garden State Tanning, Inc. flameproof	8	14	0.6	-	-	-	-	-		
Experimental green leather #30 Garden State Tanning, Inc. flameproof	3	0	0.2	-	-	-	-	-		
Flameproofed leather, Gold Garden State Tanning	0	42	1.2	1.5	-	-	-	-		
Non-burning leather Eagle Ottawa Leather Co	26	180+	0.8	-	-	-	-	-		

WINDOW SHADE MATERIALS

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	CCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				CCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
Vinyl-Mylar-700-LAM Sample 3 (Duracote Corp.)	0	0	3.0	-	-	-	-	-		
Vinyl-foil-Mylar Sample 4 (Duracote Corp.)	0	0	3.0	-	-	-	-	-		
Vinyl-foil Mylar Sample 5 (Duracote Corp.)	0	0	3.0	-	-	-	-	-		
H-246/600/077/620 Duracote, Vinyl coated fiberglass w/Tedlar surface (Duracote Corp.)	(1) 0 (2) 0	1 4	2.3 2.9	6.3 5.6	-	-	-	-	(1) Direction A (2) Direction B	
Durashade W/1 Mil Tedlar, Color 600/077, Pattern 510, (Duracote Corp.)	0	1	1.4	3.7	-	-	-	-		
Durashade (Approved but not in use) (Duracote Corp.)	0	2	2.3	6.4	-	-	-	-		
H-225 Durashade Con 200/2, Pat. 620, Color 324, DN 6029 (Approved but not in use) (Duracote Corp.)	0	1	1.3	-	-	-	-	-		
#67-647 window shade (Riegel Paper Corp.)	24	0	(1) 8.4 (2) 8.9	(1) 8.9	-	-	-	-	(1) One specimen burned entire 12 inches.	
Mylar laminate, .001" Mylar-Aluminum-UV Stabilized Cement, Color Coat - .010" (Riegel Paper Corp.)	(1) 56 (2) 43	0	10	9.3	-	-	-	-	(1) Black backing Only two specimens tested, specimens drip & burn (2) Brown backing Only two specimens tested, specimens drip and burn	
9 Mil Vinyl, 1 Mil Aluminum Foil, Seilon (Currently used by Boeing) (Seiberling)	0	0	3.7	-	-	-	-	-		
1293 Champagne Seilon, Production (Seiberling)	0	0	2.1	-	-	-	-	-		
Aersshade "A" (John Schmeller & Assoc.)	0	0	3.9	-	-	-	-	-		
Aersshade "B" (John Schmeller & Assoc.)	0	0	6.7	-	-	-	-	-		
Mylar - Vinyl Shade (C. R. Daniels)	0	0	4.9	-	-	-	-	-	Only two specimens tested	
White/Green Scribe K & E Coated Mylar, Mylar Base .0075"	(1) 13 (2) 56	0	5.0 10.6	-	-	-	-	-	(1) As received (2) With paint stripped off	
Window shade "Lisopaque" vinyl coated, silk screened fabric, (David & Dash)	28	0	10*	-	-	-	-	-	*Entire specimen	
7-223 White Vinyl Shade Stock PPF-2 flameproofed (Polyplastex)	(1) 18 (2) 10	0	5.6 4.8	-	-	-	-	-	(1) Before aging at 160°F for 3 days (2) After aging at 160°F for 3 days	
Blue-Gold Window Shade. Vinyl laminated to coated fiberglass with 1/2 Mil Tedlar topcoat, KLM DC-8 Polyplastex	2	0	3	4.3	0	0	4.9	6.7		

CATEGORY 5

FLOOR COVERING: CARPETS, AND VINYL FLOOR COVERING

TESTED AT 1450°F, USING PROPANE GAS.

CAT-5
B-152

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Carpet Drawing #65-33263-41 1 MAT'L TYPE Textile BML 7351
 IDENTIFICATION COLOR CODE, BAC NO. BAC #9187 MATERIAL, Acrilan
 MANUFACTURER Gullistan YK-2483-X PROPOSED USE Floor Covering

TEST METHODS AND REQUIREMENTS
 BMS 8-36A, Section 8.3.

RMS 8-36A Materials shall be self-extinguishing in both warp and fill directions when tested in horizontal position. Maximum char length shall be 3 inches.

DEVIATION FROM TEST METHOD

1 Carpet without foam backing.

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SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
W-2	X		105.2	0	0.5	0.50			
W-3	X		92.4	0	0.5	0.50			
F-1	X		117.4	0	0.5	0.50			
F-2	X		129.3	0	0.5	0.50			
F-3	X		151.2	0	0.5	0.50			

C/S
 6-7612-4-1
 D6-1084
 D6-6250TM
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Carpet Drawing #65-33263-41 1 MAT'L TYPE Textile EML 7351

IDENTIFICATION COLOR CODE, BAC NO. BAC #9187 Blue/Green MATERIAL Acrilan

MANUFACTURER Gullistran YK-2483-X PROPOSED USE Floor Covering

TEST METHODS AND BMS 8-36A, Section 8.3.

REQUIREMENTS BMS 8-36A Materials shall be self-extinguishing in both warp and fill directions when tested in horizontal position. Maximum char length shall be 3 inches.

DEVIATION FROM TEST METHOD

Tested in vertical position also.

A Carpet with foam backing.

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES		CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.			INCHES	INCHES				
W-1	X		52.1	0	0.50	0.25				Self-extinguishing 52.1 to 133.4 seconds. Burns in the vertical position from 2.64 to 2.94 inches per minute. Foam backing contributed to burning of carpet.
W-2	X		67.8	0	0.75	0.25		213	2.82	
W-3	X		56.3	0	0.50	0.25		227.2	2.64	
F-1	X		133.4	0	0.75	0.50		211.8	2.83	
F-2	X		91.7	0	0.50	0.25		212.9	2.82	
F-3	X		120.1	0	0.75	0.50		204.7	2.94	
W-1		X			10			207.3	2.90	
W-2		X			10					
W-3		X			10					

CALC	R. I. Forte	11-17-67	REVISED	DATE
CHECK				
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C/S
6-7612-4-61
D6-1084
D6-6250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Carpet MAT'L TYPE Wool Pile-Vinyl Foam Pad **ML** 6644

IDENTIFICATION COLOR CODE, BAC NO. Light and Dark Green Criss Cross MATERIAL

MANUFACTURER For Irish Airlines Pattern PROPOSED USE Floor Covering

TEST METHODS AND 737-248

REQUIREMENTS D6-8099-Flame Resistance

DEVIATION FROM TEST METHOD

CALC	M Sumner	7-26-68	REVISED	DATE
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SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1-W	X		2	30	9.50	0			Burning due to ignition Small amount of white smoke & strong odor
2-W	X		3	26	6.25	0			
3-W	X		2	31	6.50	0			
1-F	X		1	23	3.50	0			
2-F	X		5	42	9.25	0			
3-F	X		3	29	4.00	0			
1-W		X	5	0	0.75	0			
2-W		X	7	0	1.00	0			
3-W		X	5	0	1.50	0			
1-F		X	5	0	1.50	0			
2-F		X	1	0	1.25	0			
3-F		X	1	0	1.25	0			

C/S	SM-45
PAGE	

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Gold (724306) MAT'L TYPE Carpet-Dynel

IDENTIFICATION COLOR CODE, BAC NO. COLLINS & AIKMAN

MANUFACTURER COLLINS & AIKMAN PROPOSED USE

TEST METHODS AND REQUIREMENTS BMS 8-36 CCC-T-191b Method 5902

DEVIATION FROM TEST METHOD None

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Warp H-1	X		1	0	3/4	0			Small amount of white smoke. Bad odor
H-2	X		2	0	7/8	0			
H-3	X		0	0	3/4	0			
V-1	X	X	0	0	1 3/4	1/4			Same as above
V-2	X	X	0	0	2 1/8	3/4			
V-3	X	X	0	0	2	1/2			
Fill H-1	X		1	0	3/4	0			
H-2	X		1	0	3/4	0			
H-3	X		0	0	1	0			
V-1	X	X	0	0	2 1/2	1/2			Same as warp.
V-2	X	X	0	0	2	3/8			
V-3	X	X	0	0	2 1/4	3/8			Same as above.

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C/S
A3-SM-17
D6-1084
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE									
IDENTIFICATION		Green (724303)		MAT'L TYPE		BML 5857			
IDENTIFICATION COLOR CODE, BAC NO.		Collins & Aikman		MATERIAL		Carpet-Dynel			
MANUFACTURER		Collins & Aikman		PROPOSED USE					
TEST METHODS AND REQUIREMENTS		BMS 8-36 CCC-F-191b Method 5902							
DEVIATION FROM TEST METHOD		None							
SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Warp									
H-1	X		0	0	7/8	0			Small amount of white smoke. Bad odor.
H-2	X		0	0	3/4	0			
H-3	X		1	0	3/4	0			
V-1		X	0	0	1 7/8	3/8			
V-2		X	0	0	2 1/8	3/8			Same as above.
V-3		X	0	0	2	1/2			
Fill									
H-1	X		2	0	1	0			
H-2	X		2	0	3/4	0			
H-3	X		0	0	3/4	0			
V-1		X	0	0	1 3/4	1/2			
V-2		X	0	0	2 1/4	5/8			Same as warp.
V-3		X	0	0	1 7/8	1/4			Same as above.

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				C/S A3-8M-17
				D-1084
				PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Blue (724309) MAT'L TYPE MML 5857

IDENTIFICATION COLOR CODE, BAC NO. MATERIAL Carpet - Dyne

MANUFACTURER Collins & Aikman PROPOSED USE

TEST METHODS AND REQUIREMENTS

BMS 8-36
CCC-T-191b Method 5902

DEVIATION FROM TEST METHOD

None

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Warp								
H-1	X	2	0	3/4	0			Small amount of white smoke. Bad Odor.
H-2	X	1	0	7/8	0			
H-3	X	2	0	7/8	0			
V-1	X	0	0	2	1/4			Same as above.
V-2	X	0	0	2 1/8	3/8			
V-3	X	0	0	2	5/8			
Fill								
H-1	X	2	0	7/8	0			Same as varp.
H-2	X	1	0	1	0			
H-3	X	1	0	3/4	0			
V-1	X	0	0	1 7/8	1/4			Same as above.
V-2	X	0	0	2 1/4	5/8			
V-3	X	0	0	2	5/8			

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CHECK				A3-SM-17
APPD				D6-1084
APPD				PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE										
IDENTIFICATION		Canadian Pacific Carpet			MAT'L TYPE		Unknown		BML 6486	
IDENTIFICATION COLOR CODE, BAC NO.		blue & brown			MATERIAL		Unknown			
MANUFACTURER		Unknown			PROPOSED USE		737			
TEST METHODS AND REQUIREMENTS		D6-8099								
DEVIATION FROM TEST METHOD		None								
SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS	
F1	X				10	10	107	5.6	No dripping, no odor	
F2	X				10	10	107	5.6	Moderate smoke	
F3	X				10	10	95	6.3		
F4		X			10	10	940	0.64		
F5		X			10	10	946	0.63		
F6		X			10	10	875	0.68		
W1	X				10	10	100	6.00	F denotes parallel to fill	
W2	X				10	10	97	6.2	W denotes parallel to warp	
W3	X				10	10	102	5.9		
W4		X			10	10	960	0.62		
W5		X			10	10	925	0.65		
W6		X			10	10	940	0.64		

CALC	<i>M. Sumner</i>	REVISED	DATE
CHECK			
APPD			
APPD			

C/B 8M-5
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE
 IDENTIFICATION YK 2368F MAT'L TYPE Carpet. With foam pad BML 5983

IDENTIFICATION COLOR CODE, BAC NO. 486 Green MATERIAL Floor Covering
 MANUFACTURER Gullistan PROPOSED USE

TEST METHODS AND REQUIREMENTS BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position. With foam backing

DEVIATION FROM TEST METHOD
 Also tested in the verticla position per D6-8099

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Fill-1	x				10		212	2.8	Large flame with a moderate to large amount of black smoke and a sharp odor.
2	x				10		207	2.9	
3	x				10		208	2.9	
Warp-1	x				10		214	2.8	Same as above
2	x		220	0	10	7	199	3.0	
3	x				7	7			
Fill-1		x	113	0	1 1/2	1 1/2			Small flame with a moderate amount of black smoke and a sharp odor.
2		x	63	0	5/8	5/8			
3		x	60	0	7/8	7/8			
Warp-1		x	72	0	7/8	7/8			Same as above
2		x	95	0	7/8	7/8			
3		x	101	0	7/8	7/8			

APPD		REVISD	DATE
APPD			
CHECK			
CALC			

A3-737
 D6-1084
 D6-6250TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION AZ 1110 R /01

MAT'L TYPE Carpet. No foam pad

MLL 5983

IDENTIFICATION COLOR CODE, BAC NO. 65-33263-33

MATERIAL

MANUFACTURER Mohasco

PROPOSED USE Floorcovering - 53.6 oz/yd²

TEST METHODS AND REQUIREMENTS

BMS 8-36. Shall extinguish (no time limit) when tested in the vertical position.

DEVIATION FROM TEST METHOD

Also tested in vertical position per D6-8099

APPD		REVISOR		DATE	
APPD					
CHECK					
CALC					

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Warp-1 2 3		18		1 1/4	0			Horizontal: Small flame with a small amount of gray smoke and sharp odor. Burn length due mostly to ignition.
		19		1 1/4	0			
		14		1	0			
Fill-1 2 3		2		1 1/8	0			Pile burned. Backing not damaged.
		7		1 1/8	0			
		3		7/8	0			
Warp-1 2 3	x x x			10		55	10.9	Vertical: Large flame with a large amount of black smoke. Sharp odor.
				10		57	10.5	
				10		51	11.8	
Fill-1 2 3	x x x			10		53	11.3	
				10		61	9.85	
				10		61	9.85	

A3-737
D6-2084
D6-6250TM
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE									
IDENTIFICATION		AZ 1110 R/01		MAT'L TYPE Carpet. With foam pad		RML 5983			
IDENTIFICATION COLOR CODE, BAC NO.		65-33263-33		MATERIAL					
MANUFACTURER		Mohasco		PROPOSED USE		Floor covering			
TEST METHODS AND REQUIREMENTS		BMS 8-36. Shall extinguish (no time limit) when tested on the horizontal position.							
DEVIATION FROM TEST METHOD		Also tested in the vertical position per D6-8099							
SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Fill-1		x	1.0	0	1	0			HORIZONTAL: Small smoke. Strong odor. Flaming only on edge of carpet backing.
	2	x	15.0	0	1	0			
	3	x	42.0	0	3 1/2	3 1/2			
	4	x	26.9	0	3 1/2	1			
	5	x	0	0	2	0			
	6	x	13.3	0	2 1/2	0			
Warp-1		x	9.1	0	1.3	0			VERTICAL: Very much smoke. Carpet pile melted. Strong odor.
	2	x	9.6	0	1.1	0			
	3	x	26.5	0	1.2	0			
	4	x	81.5	0	7.2	5			
	5	x	18.0	0	3	1/4			
	6	x	67.0	0	5.5	3.2			

CALC		REVISED	DATE
CHECK			
APPD			
APPD			

A3-737
D6-1084
D6-6250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE									
IDENTIFICATION		AZ 9466 R/04		MAT'L TYPE Carpet. No foam pad		BML 5983			
IDENTIFICATION COLOR CODE, BAC NO.		420 Green		MATERIAL					
MANUFACTURER		Mohasco		PROPOSED USE Floor covering - 58 oz/yd ²					
TEST METHODS AND REQUIREMENTS		BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position.							
DEVIATION FROM TEST METHOD									
Also tested in the vertical position per D6-8099									
SAMPLE NO.	MATERIAL POSITION	VERT. MORIZ.	EXTING. TIME SECS.	AFTER CLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Harp-1 2 3	X X X		26	0	1	0			HORIZONTAL: Small flame, moderate amount of gray smoke. Sharp odor.
			4	0	1 1/4	0			
			23	0	1 1/4	0			
Fill-1 2 3	X X X		2	0	1	0			VERTICAL: Large flame. Large amount of gray to black smoke. Sharp odor.
			22	0	1	0			
			23	0	1	0			
Harp-1 2 3	X X X		41	0	10	2 1/2	61	9.8	
					6 1/4		63		
					10				
Fill-1 2 3	X X X		47		10			13	
			52		10			12	
			49		10			12	

CALC		REVISED	DATE	A3-737 D6-1084 D6-6250TK PAGE
CHECK				
APPD				
APPD				

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION AZ 9466 R/04 MAT'L TYPE Carpet, With foam pad RML 5983

IDENTIFICATION COLOR CODE, BAC NO. 420 Green MATERIAL

MANUFACTURER Mohasco PROPOSED USE Floor covering

TEST METHODS AND REQUIREMENTS SMS 8-36. Shall extinguish (no time limit) when tested in horizontal position.

DEVIATION FROM TEST METHOD

Also tested in vertical position per D6-8099

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
2			19	0	3/4	0			
3			3	0	7/8	0			
Fill-1			3	0	3/4	0			
2			6	0	7/8	0			
3			2	0	3/4	0			
Warp-1			30	0	4	1/2			
2			4	0	3	0			
3			15	0	3 3/4	0			
Fill-1			53	0	6 1/2	2 3/4			
2			24	0	4 1/2	1			
3			6	0	2 1/2	0			

CALC		REVISED		DATE	
CHECK					
APPD					
APPD					

A3-737

06-1084

06-6250TN

PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION 65-33263-7 MAT'L TYPE Carpet with Pad BML 5737

IDENTIFICATION COLOR CODE, BAC NO. #9114 red/gray MATERIAL Foam

MANUFACTURER Gullistan PROPOSED USE Floor Covering

TEST METHODS AND REQUIREMENTS BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position. The char length shall not exceed 3 inches.

DEVIATION FROM TEST METHOD

- Also tested with the carpet pile in the up position.
- Also tested in the vertical position.

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
F111								
D*-1	X	23	0		0			Afterglow on scrim cloth.
D-2	X	2	12		0			
D-3	X	21	0		0			
U** -1	X	3	27	10	0	170	3.53	Afterglow on scrim cloth.
U-2	X	17	66	10	0	164	3.66	The foam burned. The carpet pile extinguished. Light amount of black smoke.
U-3	X	10	4	10	0	159	3.77	
1	X	233	0		1			
2	X	120	0		2 1/4			Scrim cloth and foam surface burned 10" in approximately 12 seconds on Specimen #3.
3	X	158	3		2 5/8			

CALC		REVISED	DATE
CHEK	S. Michaleki	4/25/67	
APPD			
APPD			

D6-1084
D6-6250TN
C/8
A3-704
PAGE 2

* Carpet pile in "down" position.

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION 65-33263-6 MAT'L TYPE Carpet, No Foam Pad EML 5737

IDENTIFICATION COLOR CODE, BAC NO. 7003 Anthracite MATERIAL Wool

MANUFACTURER Gullistan PROPOSED USE Floor Covering

TEST METHODS AND REQUIREMENTS BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position. The char length shall not exceed 3 inches.

DEVIATION FROM TEST METHOD

1. Also tested with the carpet pile in the up position.
2. Also tested in the vertical position.

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Warp									
D*-1	X		1	0		0			
D-2	X		1	0		0			
D-3	X		1	0		0			
U**-1	X		6	0		0			
U-2	X		2	0		0			
U-3	X		24	0		1/8			
1	X		2	0		0			Applied ignition flame for approximately 90 sec. Specimens would not burn.
2	X		1	0		0			
3	X		1	0		0			

* Carpet pile in "down" position.
 ** Carpet pile in "up" position.

CALC		REVISED	DATE
CHECK	S. Michalski	4/25/67	
APPD			
APPD			

D6-1084
 D6-625099
 C/S
 A3-704
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION 65-33263-6 MAT'L TYPE Carpet, No Foam Pad. MML 5737

IDENTIFICATION COLOR CODE, BAC NO. 7003 Anthracite MATERIAL Wool

MANUFACTURER Gullistan PROPOSED USE Floor Covering

TEST METHODS AND REQUIREMENTS
 BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position.
 The char length shall not exceed 3 inches.

DEVIATION FROM TEST METHOD

1. Also tested with the carpet pile in the up position.
2. Also tested in the vertical position.

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
F11							
D-1*	X	1	0	0			
D-2	X	4	0	0			
D-3	X	4	0	0			
U-1**	X	2	0	0			
U-2	X	2	0	0			
U-3	X	2	0	0			
1	X	13	0	1/8			Applied ignition flame for 60 sec. Specimens would not burn.
2	X	21	0	1/8			
3	X	6	0	1/8			

CALC		REVISED	DATE
CHECK	S. Michaleki	4/25/67	
APPD			
APPD			

D6-1084
 D6-62500
 C/8
 A3-704
 PAGE 1

* Carpet pile in "down" position.
 ** Carpet pile in "up" position.

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION 10-60214-55 MAT'L TYPE Carpet, No Foam Pad ML 5737

IDENTIFICATION COLOR CODE, BAC NO. 878 Brown MATERIAL Nylon

MANUFACTURER Collins & Aikman PROPOSED USE Floor Covering

TEST METHODS AND REQUIREMENTS BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position. Char length shall not exceed 3 inches.

DEVIATION FROM TEST METHOD

- Also tested with the carpet in the up position.
- Also tested in the vertical position.

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
D-1*	X		28	0	10	0	868	0.69	Moderate amount of black smoke. Black drippings while burning.
D-2	X		75	0	1	1/4			
D-3	X								
U-1**	X		11	0		0			Light amount of smoke.
U-2	X		11	0		0			
U-3	X		14	0		0			
1	X		20	0		1/8			
2	X		22	0		1/8			
3	X			0	10		200	3.0	

* Carpet pile in "down" position.
** Carpet pile in "up" position.

CALC		REVISED	DATE
CHECK	S. Michalski		4/25/67
APPD			
APPD			

C/S
A3-704
D6-1084
D6-6250TN
PAGE :

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE											
IDENTIFICATION		10-60214 -55		MAT'L TYPE		Carpet, No Foam Pad		BML 5737			
IDENTIFICATION COLOR CODE, BAC NO.		878 Brown		MATERIAL		Nylon		PROPOSED USE		Floor Covering	
MANUFACTURER		Collins & Aikman									
TEST METHODS AND REQUIREMENTS		BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position. Char length shall not exceed 3 inches.									
DEVIATION FROM TEST METHOD											
1. Also tested with the carpet pile in the up position.											
2. Also tested in the vertical position.											
SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER CLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS		
Warp											
D-1	X		5	0		0					Moderate amount of black smoke.
D-2	X		46	0		0	693	0.87			
D-3	X			0	10						
**											
U-1	X		1	0		0					Slight amount of smoke.
U-2	X		21	0							
U-3	X		18	0							
1		X		0	10		257	2.33			Moderate amount of black smoke.
2		X		0	10		222	2.7			
3		X		0	10		217	2.8			

* Carpet pile in "down" position.
 ** Carpet pile in "up" position.

CALC		REVISED	DATE	C/S
CHECK	S. Michalaki	4/25/67		A3-704
APPD				D6-1084
APPD				D6-6250TN
				PAGE 7

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION 65-33263-27 BML 5737

MAT'L TYPE Carpet with Pad

MATERIAL Nylon

IDENTIFICATION COLOR CODE, BAC NO. 396 Brown/Black

PROPOSED USE Floor Covering

MANUFACTURER Collins & Aikman

TEST METHODS AND REQUIREMENTS
 BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position.
 Char length shall not exceed 3 inches.

DEVIATION FROM TEST METHOD

- Also tested with the carpet pile in the up position.
- Also tested in the vertical position.

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Warp								
D*-1	X	63	0		1/2			Melted and dripped.
D-2	X	150	0	3 1/2	1 5/8			
D-3	X	28	0	1	1/2			
U** -1	X		290	10		99	6.06	Only the scrim cloth and foam burned.
U-2	X		311	10		112	5.35	The carpet pile extinguished.
U-3	X		264	10		116	5.18	After-glow on the scrim cloth.
1	X		0	10		120	5.0	A flash flame burned the entire length
2	X		0	10		140	4.29	of the foam pad in approximately 15
3	X		0	10		170	3.53	seconds.

* Carpet pile in "down" position.
 ** Carpet pile in "up" position.

CALC		REVISED	DATE
CHECK	S. Michalski	4/25/67	
APPD			
APPD			

C/S
 A3-70h
 D6-1084
 D6-6250TN
 PART

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE									
IDENTIFICATION		65-33263-27			MAT'L TYPE Carpet with Pad			MML 5737	
IDENTIFICATION COLOR CODE, BAC NO.		896 Brown/Black			MATERIAL			Nylon	
MANUFACTURER		Collins & Aikman			PROPOSED USE Floor Covering				
TEST METHODS AND REQUIREMENTS		BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position. Char length shall not exceed 3 inches.							
DEVIATION FROM TEST METHOD									
1. Also tested with the carpet pile in the up position.									
2. Also tested in the vertical position.									
SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Fill									
D*-1	X		112	0	3	1			Moderate amount of black smoke. Dripping.
D-2	X		116	0	3 1/4	1 5/8			
D-3	X		128	0	2 1/2	1 5/8			
U** -1	X			370	10		103	5.81	Same comment as warp.
U-2	X			454	10		103	5.81	
U-3	X		12	80		0			
1	X			0	10		130	4.61	
2	X		224	0		6 1/2			Moderate amount of smoke.
3	X		18	0		1 1/8			

* Carpet pile in "down" position.
** Carpet pile in "up" position.

CALC		REVISED	DATE
CHECK	S. Michalski	4/25/67	
APPD			
APPD			

C/S
A3-704
D6-1084
D6-6250TN
PAGE 2

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

MML 5737

MAT'L TYPE Carpet with Pad

65-33263-21

MATERIAL Wool

472 Blue/Green/Gold

BAC NO. 472 Blue/Green/Gold

PROPOSED USE Floor Covering

Manufacturer Gulistan

TEST METHODS AND REQUIREMENTS

BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position.
Char length shall not exceed 3 inches.

DEVIATION FROM TEST METHOD

- Also tested with the carpet pile in the up position.
- Also tested in the vertical position.

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Fill									
D*-1	X		18	16		0			Very little smoke. Afterglow on scrim cloth of foam pad.
D-2	X		23	10		0			
D-3	X		14	14		0			
U**~1	X		46	12		0			On one specimen, the scrim cloth and foam burned. Carpet pile extinguished.
U-2	X		21	38		0			
U-3	X		25	8	10		126	4.76	
1		X	238	0		3			
2		X	200	0		2 3/8			
3		X	469	0		6 1/4			

* Carpet pile in "down" position.
** Carpet pile in "up" position.

CALC		REVISED	DATE
CHECK	S. Michalski		4/25/67
APPD			
APPD			

C/S
A3-704
06-1084
06-6250TN
PAGE 1

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION 65-33263-21

MAT'L TYPE Carpet with Pad

BAC NO. 472 Blue/Green/Gold

PROPOSED USE Floor Covering

MATERIAL Wool

MANUFACTURER Gullistan

TEST METHODS AND REQUIREMENTS

RMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position.
Char length shall not exceed 3 inches.

DEVIATION FROM TEST METHOD

- Also tested with the carpet pile in the up position.
- Also tested in the vertical position.

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
D*-1	X		1	0		0			Very little smoke.
D-2	X		3	0		0			
D-3	X		1	0		0			
U** -1	X		2	0		0			Scrim cloth and foam burned.
U-2	X		15	0	10		113	5.32	
U-3	X		10	0	10		116	5.18	Carpet pile extinguished.
1		X	166	0		2 5/8			
2		X	422	0		5 5/8			
3		X	562	0		8 1/4			Very little smoke.

CALC		REVISED	DATE
CHECK	S. Michalski	4/25/67	
APPD			
APPD			

c/s
A3-704
D6-1084
D6-62507N
PAGE 2 of 2

* Carpet pile in "down" position.
** Carpet pile in "up" position.

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION 65-33263-20

MAT'L TYPE Carpet with Pad

IDENTIFICATION COLOR CODE, BAC NO. 9152 Blue/Green

MANUFACTURER Gullistan

MATERIAL Wool

PROPOSED USE Floor Covering

TEST METHODS AND REQUIREMENTS

BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position.
Char length shall not exceed 3 inches.

DEVIATION FROM TEST METHOD

- Also tested with the carpet pile in the up position.
- Also tested in the vertical position.

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Warp									
D*-1	X		6	10		0			1. Horizontal: Warp and Fill. a. In all instances the foam burned. The carpet pile extinguished immediately.
D-2	X		8	10		0			b. Small flame and gray smoke. Sharp odor.
D-3	X		8	12		0			2. Vertical: Warp and Fill. Same as horizontal except moderate flame.
U*-1	X		159	0		1/8			
U-2	X		154	0		1/8			
U-3	X		144	0		1/8			
1	X		82	3		1/2			
2	X		184	0		1 1/4			
3	X		187	3		2 1/2			

* Carpet pile in "down" position.
** Carpet pile in "up" position.

CALC		REVISED	DATE
CHECK	S. Michalski	4/25/67	
APPD			
APPD			

C/S
A3-704
D6-1084
D6-6250TN
PAGE 1/1

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE								
IDENTIFICATION	65-33263-20	MAT'L TYPE	Carpet with Pad					
IDENTIFICATION COLOR CODE, BAC NO.	9152	MATERIAL	Wool					
MANUFACTURER	Gulistan	PROPOSED USE	Floor Covering					
TEST METHODS AND REQUIREMENTS	BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position. Char length shall not exceed 3 inches.							
DEVIATION FROM TEST METHOD	1. Also tested with the carpet pile in the up position. 2. Also tested in the vertical position.							
SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Fill								
D#-1	X	2	7		0			Same as warp.
D-2	X	1	3		0			
D-3	X	1	5		0			
U##-1	X	163	0		3/8			
U-2	X	152	0		1/8			
U-3	X	148	0		1/8			
1		276	0		2 3/4			
2	X	220	0		3 1/8			
3	X	501	0		7 3/4			

* Carpet pile in "down" position.
 ** Carpet pile in "up" position.

CALC		REVISED	DATE	
CHECK	S. Michalski	4/25/67		
APPD				
APPD				

C/S
 A3-704
 D6-1084
 D6-6250TN
 PAGE 1

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION 65-33263-19 MAT'L TYPE Carpet with Pad EML 5737

IDENTIFICATION COLOR CODE, BAC NO. 5073 Dark Blue/ Gold MATERIAL Nylon

MANUFACTURER Collins & Aikman PROPOSED USE Floor Covering

TEST METHODS AND REQUIREMENTS BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position. Char length shall not exceed 3 inches.

DEVIATION FROM TEST METHOD

1. Also tested with the carpet pile in the up position.
2. Also tested in the vertical position.

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Fill			40	11	1 1/4	1/2			
D-1*	X			0	10		677	0.89	
D-2	X			0	10		642	0.93	
D-3	X								
U-1**	X			827	10		126	4.8	
U-2	X		1	23	0	0	135	4.4	
U-3	X			36	10				
1		X		0	10		183	3.28	
2		X		0	10		184	3.26	
3		X		0	10		188	3.20	

* Carpet pile in "down" position.
 ** Carpet pile in "up" position.

CALC		REVISED	DATE
CHECK	<u>B. Michalski</u>		<u>4/25/67</u>
APPD			
APPD			

C/S
 A3-704
 D6-1084
 D6-6250TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION 65-33263-19 MAT'L TYPE Carpet with Pad BML 5737

IDENTIFICATION COLOR CODE, BAC NO. 5073 Dark Blue/Gold MATERIAL Nylon

MANUFACTURER Collins & Aikman PROPOSED USE Floor Covering

TEST METHODS AND REQUIREMENTS BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position. Char length shall not exceed 3 inches.

DEVIATION FROM TEST METHOD

- Also tested with the carpet pile in the up position.
- Also tested in the vertical position.

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
D-1*	X		48	0	1 1/4	1/4	650	0.92	Moderate amount of black smoke. Burning drippings of black substance.
D-2	X		42	0	10	1/4			
D-3	X			0	1 1/4				
U-1**	X			354	10		126	4.8	
U-2	X		2	37					
U-3	X		1	35					
1		X		0	10		138	4.35	Much black smoke.
2		X		0	10		176	3.41	
3		X	14	0		1/4			

CALC		REVISED	DATE
CHECK	S. Michalaki	4/25/67	
APPD			
APPB			

C/S
A3-704
06-1084
06-6250TN
PAGE 2

* Carpet pile in "down" position.
** Carpet pile in "up" position.

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE								
IDENTIFICATION	65-33263-15	MAT'L TYPE	Carpet with Pad					
IDENTIFICATION COLOR CODE, BAC NO.	882 Brown/Gray/Blue	MATERIAL	Nylon					
MANUFACTURER	Collins & Aikman	PROPOSED USE	Floor Carpeting					
TEST METHODS AND REQUIREMENTS	BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position. Char length shall not exceed 3 inches.							
DEVIATION FROM TEST METHOD								
1. Also tested with the carpet pile in the up position.								
2. Also tested in the vertical position.								
SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Fill								
D-1*	X	93	0	2 3/4	1			Moderate amount of gray smoke.
D-2	X	26	0	1 1/4	3/8			
D-3	X	108	0	2 1/8	1			
U-1**	X		32	10	1/4	109	5.5	After-glow on scrim cloth.
U-2	X		183	10	1/4	117	5.1	
U-3	X		61	10	1/4	145	4.1	
1	X	13	0	10	1/8	128	4.69	
2	X		0	10		100	6.00	
3	X		0	10				Moderate amount of black smoke.

* Carpet pile in "down" position.
 ** Carpet pile in "up" position.

CALC		REVISED		DATE	
CHECK	S. Michalski		4/25/67		
APPD					
APPD					

C/S
 A3-704
 06-1084
 06-6250TN
 PAGE 1

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION	65-33263-15	MAT'L TYPE	Carpet, Mth Pad	BML	5737				
IDENTIFICATION COLOR CODE, BAC NO.	882 Brown/Gray/Blue	MATERIAL	Nylon						
MANUFACTURER	Collins & Aikman	PROPOSED USE	Floor Carpeting						
TEST METHODS AND REQUIREMENTS	BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position. Char length shall not exceed 3 inches.								
DEVIATION FROM TEST METHOD									
1. Also tested with the carpet pile in the up position.									
2. Also tested in the vertical position.									
SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Warp									
D-1*	X		109	0	2 1/4	1			Moderate amount of gray smoke.
D-2	X		120	0	3	1			
D-3	X		126	0	2 3/4	1 1/8			
U-1**	X			82	10		144	4.1	The after-glow was on the scrim cloth.
U-2	X			464	10		135	4.4	
U-3	X			353	10		139	4.3	
1		X		0	10		148	4.05	Moderate amount of black smoke.
2		X		0	10		115	5.21	The pile cloth-backing burned. The foam did not burn.
3		X	12	0		1 3/4			

* Carpet pile in "down" position.

** Carpet pile in "up" position.

CALC		REVISED	DATE	C/S A3-704 D6-1084 D6-6250TN PAGE 1 of 2
CHECK	S. Michalski	4/25/67		
APPD				
APPD				

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION 65-33263-14 MAT'L TYPE Carpet with Pad RML 5137

IDENTIFICATION COLOR CODE, BAC NO. 5005 Blue MATERIAL Wool

MANUFACTURER Gulistan PROPOSED USE Floor Covering

TEST METHODS AND REQUIREMENTS

RMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position.
The char length shall not exceed 3 inches.

DEVIATION FROM TEST METHOD

- Also tested with the carpet pile in the up position.
- Also tested in the vertical position.

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Fill									
D*-1	X		43	0		0			
D-2	X		37	0		0			
D-3	X		5	12		0			
U**-1	X		15	85	10	0	131	4.58	After-glow on scrim cloth.
U-2	X		33	20	10	0	137	4.38	Foam burned. Carpet extinguished.
U-3	X		39	143	10	0	121	4.96	After-glow was scrim cloth.
1	X		533	0		4 1/4			Light amount of smoke.
2	X		405	0		4 1/8			Scrim cloth and foam surface burned 10"
3	X		243	0		1 5/8			in 190 seconds on specimen #3.

* Carpet pile in "down" position.
** Carpet pile in "up" position.

CALC		REVISED	DATE
CHECK	S. Michalski	4/25/67	
APPD			
APPD			

C/S
A3-704
D6-1084
D6-6250TN
PAGE ;

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION		65-33263-14		MAT'L TYPE		Carpet with Pad		EML 5737	
IDENTIFICATION COLOR CODE, BAC NO.		5005 Blue		MATERIAL		Wool			
MANUFACTURER		Gullistan		PROPOSED USE		Floor Covering			
TEST METHODS AND REQUIREMENTS		BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position. The char length shall not exceed 3 inches.							
DEVIATION FROM TEST METHOD		1. Also tested with the carpet pile in the up position. 2. Also tested in the vertical position.							
SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Warp									
D*-1	X		30	0	0				After-glow on scrim cloth.
D-2	X		100	0	3/8				
D-3	X		17	12	0				
U** -1	X		35	27	10	0	136	4.41	Foam burned. After-glow on scrim cloth.
U-2	X		44	39	10	0	147	4.08	Carpet extinguished.
U-3	X		51	48	10	0	120	5.00	
1	X		329	0		3 5/8			Light amount of black smoke.
2	X		102	2		7/8			
3	X		301	0		3 3/4			

* Carpet pile in "down" position.
** Carpet pile in "up" position.

CALC		REVISED	DATE	C/S
CHECK	S. Michalski	4/25/67		A3-704
APPD				D6-1084
APPO				D6-6250TN
				PAG

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION 65-33263-14

MAT'L TYPE Carpet with Pad

MATERIAL Wool

BAC NO. 5005

Blue

PROPOSED USE Floor Covering

MANUFACTURER Gulistan

TEST METHODS AND REQUIREMENTS
 BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position.
 The char length shall not exceed 3 inches.

DEVIATION FROM TEST METHOD

- Also tested with the carpet pile in the up position.
- Also tested in the vertical position.

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Warp								
D*-1	X	30	0	0				After-glow on scrim cloth.
D-2	X	100	0	3/8				
D-3	X	17	12	0				
U**-1	X	35	27	10	0	136	4.41	Foam burned. After-glow on scrim cloth.
U-2	X	44	39	10	0	147	4.08	Carpet extinguished.
U-3	X	51	48	10	0	120	5.00	
1	X	329	0	3	5/8			Light amount of black smoke.
2	X	102	2	7/8				
3	X	301	0	3	3/4			

* Carpet pile in "down" position.
 ** Carpet pile in "up" position.

CALC		REVISED	DATE
CHECK	S. Michalski	4/25/67	
APPD			
APPD			

C/S
 A3-704
 D6-1084
 D6-6250TH

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION 65-33263-14 MAT'L TYPE Carpet with Pad BML 5737
 IDENTIFICATION COLOR CODE, BAC NO. 5005 Blue MATERIAL Wool

MANUFACTURER Gullistan PROPOSED USE Floor Covering

TEST METHODS AND REQUIREMENTS BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position. The char length shall not exceed 3 inches.

DEVIATION FROM TEST METHOD

- Also tested with the carpet pile in the up position.
- Also tested in the vertical position.

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.		AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
		VERT.	HORIZ.						
Warp									
D#-1	X	30		0	0				After-glow on scrim cloth.
D-2	X	100		0	3/8				
D-3	X	17		12	0				
U##-1	X	35		27	10	0	136	4.41	
U-2	X	44		39	10	0	147	4.08	Foam burned. After-glow on scrim cloth. Carpet extinguished.
U-3	X	51		48	10	0	120	5.00	
1	X	329		0		3 5/8			Light amount of black smoke.
2	X	102		2		7/8			
3	X	301		0		3 3/4			

CALC		REVISED	DATE
CHECK	S. Michalski	4/25/67	
APPD			
APPD			

C/S
 A3-704
 D6-1084
 D6-6250TN
 PAGE

* Carpet pile in "down" position.
 ** Carpet pile in "up" position.

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION 65-33263-13 MAT'L TYPE Carpet with Foam Pad EML 5737

IDENTIFICATION COLOR CODE, BAC NO. MATERIAL

MANUFACTURER Collins & Alkman PROPOSED USE Floor Covering

TEST METHODS AND REQUIREMENTS BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position.
Char length shall not exceed 3 inches.

DEVIATION FROM TEST METHOD

- Also tested with the carpet pile in the up position.
- Also tested in the vertical position.

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
D-1*	X		0	0	10		782	0.77	Specimen dripped burning drops of black substance. Moderate amount of smoke.
D-2	X		0	0	10		796	0.75	
D-2	X		0	0	10		822	0.73	
U-1**	X		362	0	10		143	4.2	Moderate amount of black smoke.
U-2	X		284	0	10		158	3.8	
U-3	X		196	0	10		138	4.3	
1	X		0	0	10		120	5.00	
2	X		0	0	10		161	3.73	
3	X		0	0	10		137	4.35	

* Carpet pile in "down" position.
** Carpet pile in "up" position.

CALC		REVISED	DATE
CHECK	S. Michalski	4/25/67	
APPD			
APPD			

C/S
A3-704
06-1084
06-6250TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION 65-33263-13 MAT'L TYPE Carpet with Foam Pad MML 5737
 IDENTIFICATION COLOR CODE, BAC NO. _____ MATERIAL _____

MANUFACTURER Collins & Aikman PROPOSED USE Floor Covering

TEST METHODS AND REQUIREMENTS BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position. Char length shall not exceed 3 inches.

DEVIATION FROM TEST METHOD

1. Also tested with the carpet pile in the up position.
2. Also tested in the vertical position.

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
D-1*	X			0	10		940	0.64	
D-2	X			0	10		772	0.78	
D-3	X			0	10		862	0.70	
U-1**	X			25	10		150	4.0	
U-2	X		10	21		0			
U-3	X		2	8		0			
1		X		0	10		126	4.76	
2		X		0	10		125	4.76	
3		X		0	10		151	4.00	

APPD		REVISED	DATE
APPD			
CHECK	S. Michalski	4/25/67	
CALC			

C/S
 A3-704
 06-1084
 06-6250TN
 PAGE -

* Carpet pile in "down" position.
 ** Carpet pile in "up" position.

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION 65-33263-12 MAT'L TYPE Carpet with Pad PML 5737

IDENTIFICATION COLOR CODE, BAC NO. 5090 Light Blue MATERIAL Nylon

MANUFACTURER Collins & Aikman PROPOSED USE Floor Covering

TEST METHODS AND REQUIREMENTS BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position. Char length shall not exceed 3 inches.

DEVIATION FROM TEST METHOD

1. Also tested with the carpet pile in the up position.
2. Also tested in the vertical position.

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Warp									
D-1*	X			0	10		774	0.78	
D-2	X			0	10		765	0.78	
D-3	X			0	10		812	0.74	
U-1**	X			297	10		117	5.1	
U-2	X			246	10		112	5.4	
U-3	X			268	10		122	4.9	
1		X		0	10		162	3.47	
2		X		0	10		163	3.47	
3		X		0	10		149	4.00	

* Carpet pile in "down" position.
 ** Carpet pile in "up" position.

CALC		REVISED	DATE
CHECK	S. Michalski	4/25/67	
APFD			
APFD			

C/S
 A3-704
 D6-1084
 D6-6250TN
 PAGE /

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION 65-33263-12 MAT'L TYPE Carpet with Pad EML 5737

IDENTIFICATION COLOR CODE, BAC NO. 5090 Light Blue MATERIAL Nylon

MANUFACTURER Collins & Aikman PROPOSED USE Floor Covering

TEST METHODS AND REQUIREMENTS
 BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position.
 Char length shall not exceed 3 inches.

DEVIATION FROM TEST METHOD

- Also tested with the carpet pile in the up position.
- Also tested in the vertical position.

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Fill									
D-1*	X			0	10		763	0.79	
D-2	X			0	10		740	0.81	
D-3	X		98	0	2 7/8	1 1/2			
U-1**	X			100	10		116	5.2	
U-2	X			284	10		106	5.7	
U-3	X			495	10		122	4.9	
1		X		0	10		185	3.23	
2		X		0	10		132	4.54	
3		X		0	10		153	3.92	

CALC		REVISED	DATE
CHECK	S. Michalski	4/25/67	
APPD			
APPD			

C/S
 A3-704
 D6-1084
 D6-6250/TN
 PAGE 2 of 2

* Carpet pile in "down" position.
 ** Carpet pile in "up" position.

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION 65-33263-11 MAT'L TYPE Carpet. No Foam Pad BML 5737

IDENTIFICATION COLOR CODE, BAC NO. 878 Brown MATERIAL Nylon

MANUFACTURER Collins & Aikman PROPOSED USE Floor Covering

TEST METHODS AND REQUIREMENTS BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position. Char length shall not exceed 3 inches.

DEVIATION FROM TEST METHOD

1. Also tested with the carpet pile in the up position.
2. Also tested in the vertical position.

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
D-1*	X			0	10		693	0.87	Light amount of light gray smoke. Specimen dripped black substance.
D-2	X			0	10		746	0.80	
D-3	X			0	10		703	0.85	
U-1**	X		23			1/4			Slight amount of smoke.
U-2	X		3			1/8			
U-3	X		3			1/8			
1	X		9	0		0			
2	X			0	10		234	2.56	
3	X			0	10		166	3.61	

* Carpet pile in "down" position.
 ** Carpet pile in "up" position.

CALC		REVISED	DATE
CHECK	S. Michalski		4/25/67
APPD			
APPD			

C/S
 A3-704
 D6-1084
 D6-6250TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION 65-33263-11 MAT'L TYPE Carpet., No Foam Pad,BML 5737
 IDENTIFICATION COLOR CODE, BAC NO. 878 Brown MATERIAL Nylon
 MANUFACTURER Collins & Aikman PROPOSED USE Floor Covering

TEST METHODS AND REQUIREMENTS BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position. Char length shall not exceed 3 inches.

DEVIATION FROM TEST METHOD
 1. Also tested with the carpet in the up position.
 2. Also tested in the vertical position.

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Warp									
D*-1	X		19	0		0	669	0.90	Specimen dripped black substance.
D-2	X			0			712	0.84	
D-3	X			0					
U**-1	X		4	0		0			
U-2	X		10	0		0			
U-3	X		1	0		0			
1		X	16	0		0	278	2.16	
2		X		0		1/8			
3		X	21	0					

* Carpet pile in "down" position.
 ** Carpet pile in "up" position.

CALC		REVISED	DATE	C/S A3-704 D6-1084 D6-6250TN PAGE
CHECK	S. Michalaki	4/25/67		
APPD				
APPD				

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE									
IDENTIFICATION		65-33263-8		MAT'L TYPE		Carpet with Pad		BML 5737	
IDENTIFICATION COLOR CODE, BAC NO.		755 Aqua/Brown		MATERIAL		Wool		PROPOSED USE	
MANUFACTURER		Gulistan		FLOOR COVERING		Floor Covering			
TEST METHODS AND REQUIREMENTS		BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position. Char length shall not exceed 3 inches.							
DEVIATION FROM TEST METHOD		1. Also tested with the carpet pile in the up position. 2. Also tested in the vertical position.							
SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Ward									
D-1*	X		5	4		0			After-glow was scrim cloth.
D-2	X		2	4		0			
D-3	X		11	4		0			
U-1**	X		29	25		1/8			
U-2	X		21	262	10	1/8	146	4.11	After-glow was scrim cloth. Foam burned. Carpet pile extinguished.
U-3	X		24	122	10	1/8	140	4.29	
1	X		444	0		6	1/2		
2	X		477	0		4	1/2		
3	X		557	0		7	1/2		

* Carpet pile in "down" position.
** Carpet pile in "up" position.

CALC		REVISED	DATE	C/S
CHECK	S. Michalski	4/25/67		A3-704
APPD				D6-1084
APPD				D6-6250TN
				PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE										
IDENTIFICATION		65-33263-8		MAT'L TYPE		Carpet with Pad		BML 5737		
IDENTIFICATION COLOR CODE, BAC NO.		755 Aqua/Brown		MATERIAL		Wool				
MANUFACTURER		Gulistan		PROPOSED USE		Floor Covering				
TEST METHODS AND REQUIREMENTS		BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position. Char length shall not exceed 3 inches.								
DEVIATION FROM TEST METHOD		1. Also tested with the carpet pile in the up position. 2. Also tested in the vertical position.								
SAMPLE NO.	MATERIAL POSITION	VERT.	HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Fill										
D-1	X			4	12		0			After-glow was scrim cloth.
D-2	X			14	8		0			After-glow was scrim cloth.
D-3	X			20	6		0			Carpet pile extinguished.
U-1**	X			4	55		0			
U-2	X			10	121	10	0	119	5.04	
U-3	X			14	381	10	0	132	4.55	
1	X			336	9		3			Moderate amount of black smoke with soot.
2	X			405	14		7			
3	X			281	0		2 5/8			

* Carpet pile in "down" position.

** Carpet pile in "up" position.

CALC		REVISED	DATE	C/S A3-704 06-1084 06-6250TH PAGE 2
CHECK	S. Michalski	4/25/67		
APPD				
APPD				

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION 65-33263-7 MAT'L TYPE Carpet with Pad MML 5737

IDENTIFICATION COLOR CODE, BAC NO. #9114 red/gray MATERIAL Wool

MANUFACTURER Gullistan PROPOSED USE Floor Covering

TEST METHODS AND REQUIREMENTS BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position. The char length shall not exceed 3 inches.

DEVIATION FROM TEST METHOD

- Also tested with the carpet pile in the up position.
- Also tested in the vertical position.

COMMENTS

After glow on scrim cloth.

After glow on scrim cloth.

CALC		REVISED	DATE
CHECK	S. Michalski	4/25/67	
APPD			
APPD			

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Warp									
D*-1	X		0	0		0			
D-2	X		1	10		0			
D-3	X		3	7		0			
U**-1	X		1	0		0			
U-2	X		1	7		0			
U-3	X		20	8		0			
1	X		280	0	no	4.0	246	2.44	
2	X		22	0		3/4			
3	X			0					

D6-1084
D6-6250TN
C/S
A3-704
PAGE

* Carpet pile in "down" position.
** Carpet pile in "up" position

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE								
IDENTIFICATION	10-60214-57	MAT'L TYPE	Carpet with Pad					
IDENTIFICATION COLOR CODE, BAC NO.	5043W Blue/Green	MATERIAL	Wool					
MANUFACTURER	Gulistan	PROPOSED USE	Floor Covering					
TEST METHODS AND REQUIREMENTS								
BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position. Char length shall not exceed 3 inches.								
DEVIATION FROM TEST METHOD								
1. Also tested with the carpet pile in the up position.								
2. Also tested in the vertical position.								
SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Warp								
D*-1	X	0	0		0			Very little smoke.
D-2	X	5	0		0			
D-3	X	2	0		0			
U** -1	X	2	0		0			Very little smoke.
U-2	X	1	0		0			
U-3	X	2	0		0			
1	X	10	0		0			
2	X	11	0		0			
3	X	23	0		0			Flaming on foam pad.

* Carpet pile in "down" position.
** Carpet pile in "up" position.

CALC		REVISED	DATE	C/S A3-704 D6-1084 D6-6250TN PAGE 2
CHECK	S. Michalski	4/25/67		
APPD				
APPD				

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION 10-60214-57

MAT'L TYPE Carpet with Pad

BAC NO. 5043W Blue/Green

IDENTIFICATION COLOR CODE, BAC NO.

REVISOR S. Michalski

MATERIAL Wool

PROPOSED USE Floor Covering

MANUFACTURER Gulistan

TEST METHODS AND REQUIREMENTS

BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position.
Char length shall not exceed 3 inches.

DEVIATION FROM TEST METHOD

- Also tested with the carpet pile in the up position.
- Also tested in the vertical position.

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER CLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
D*-1	X		0	0		0			
D-2	X		3	0		0			
D-3	X		2	0		0			
U**-1	X		1	0		0			
U-2	X		2	0		0			
U-3	X		2	0		0			
1		X	2	0		0			
2		X	1	0		0			
3		X	1	0		0			

* Carpet pile in "down" position.
** Carpet pile in "up" position.

CALC		REVISOR	DATE
CHECK	S. Michalski	4/25/67	
APPD			
APPD			

C/S
43-704
D6-1084
D6-6250TN
PAGE 1

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION 10-60214-58 MAT'L TYPE Carpet, No Foam Pad, BML 5737

IDENTIFICATION COLOR CODE, BAC NO. 5100 Blue/Black MATERIAL Acrylan

MANUFACTURER Mohasco PROPOSED USE Floor Covering

TEST METHODS AND REQUIREMENTS BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position. Char length shall not exceed 3 inches.

DEVIATION FROM TEST METHOD

1. Also tested with the carpet pile in the up position.
2. Also tested in the vertical position.

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Warp									
D*-1	X		2	0		0			
D-2	X		3	0		0			
D-3	X		49	0		0			
D-4	X		66	0		0			
U**-1	X		31	0		1/8			
U-2	X		43	0		1/8			
U-3	X		105	0		1/8			
1	X		242	0		3 1/2			Moderate amount of white and black smoke.
2	X		174	0		6 1/4			
3	X			0		3 7/8	248	2.44	

APPD			
APPD			
CHECK	S. Michalski	4/25/67	
REVISD			
DATE			

C/S
A3-704
D6-1084
D6-6250TN
PAGE

* Carpet pile in "down" position.
** Carpet pile in "up" position.

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION 10-60214-58 MAT'L TYPE Carpet No Foam Pad. BML 5737

IDENTIFICATION COLOR CODE, BAC NO. 5100 Blue/Black MATERIAL Acrlan

MANUFACTURER Mohasco PROPOSED USE Floor Covering

TEST METHODS AND REQUIREMENTS BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position. Char length shall not exceed 3 inches.

DEVIATION FROM TEST METHOD

1. Also tested with the carpet pile in the up position.
2. Also tested in the vertical position.

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Fill									
D-1*	X		48	0		1/8			Moderate amount of black smoke.
D-2	X		73	0		1/8			
D-3	X		92	0		1/8			
U-1*	X		86	0		1/2			
U-2	X		161	0		1/2			
U-3	X		74	0		1/4			
1		X	66	0		1	1/2		
2		X		0			200	3	
3		X		0			227	2.63	

* Carpet pile in "down" position.
 ** Carpet pile in "up" position.

CALC		REVISED	DATE
CHECK	S. Michalski		4/25/67
APPD			
APPD			

A3-704
 D6-1084
 D6-6250TN
 PAGE 1 of 2

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE								
IDENTIFICATION	10-60214-60	MAT'L TYPE	Carpet with Pad					
IDENTIFICATION COLOR CODE, BAC NO.	169 Red	MATERIAL	Wool					
MANUFACTURER	Magee	PROPOSED USE	Floor Covering					
<p>TEST METHODS AND REQUIREMENTS</p> <p>BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position. Char length shall not exceed 3 inches.</p>								
<p>DEVIATION FROM TEST METHOD</p> <p>1. Also tested with the carpet pile in the up position.</p> <p>2. Also tested in the vertical position.</p>								
SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.						
Warp								
D#-1	X		0	0	0	0		Small amount of smoke. Bad odor.
D-2	X		0	0	0	0		
D-3	X		0	0	0	0		
U#-1	X		0	0	0	0		
U-2	X		0	0	0	0		
U-3	X		0	0	0	0		
1		X	1	0	0	0		
2		X	1	0	0	0		
3		X	1	0	0	0		

* Carpet pile in "down" position.
** Carpet pile in "up" position.

CALC		REVISED		DATE			
CHECK	S. Michalski			4/25/67			
APPD							
APPD							
							C/S A3-704 D6-1084 D6-6250TN PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION 10-60214-60 MAT'L TYPE Carpet with Pad NML 5737

IDENTIFICATION COLOR CODE, BAC NO. 169 Red MATERIAL Wool

MANUFACTURER Magee PROPOSED USE Floor Covering

TEST METHODS AND REQUIREMENTS BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position. Char length shall not exceed 3 inches.

DEVIATION FROM TEST METHOD

- Also tested with the carpet pile in the up position.
- Also tested in the vertical position.

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Fill									
D*-1	X		0	0		0			
D-2	X		0	0		0			
D-3	X		0	0		0			
U**-1	X		0	0		0			
U-2	X		0	0		0			
U-3	X		0	0		0			
1		X	1	0		0			
2		X	1	0		0			
3		X	1	0		0			

CALC		REVISED	DATE
CHECK	S. Michalski		4/25/67
APPD			
APPD			

C/S
 A3-704
 D6-1084
 D6-6250TN
 PAGE

* Carpet pile in "down" position.
 ** Carpet pile in "up" position.

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION 10-60214-61 MAT'L TYPE Carpet with Pad BML 5737
 IDENTIFICATION COLOR CODE, BAC NO. 171 Red/Gray/Black MATERIAL Wool
 MANUFACTURER Gulistan PROPOSED USE Floor Covering

TEST METHODS AND REQUIREMENTS BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position. Char length shall not exceed 3 inches.

DEVIATION FROM TEST METHOD

- Also tested with the carpet pile in the up position.
- Also tested in the vertical position.

SAMPLE NO.	MATERIAL POSITION:		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Warp									
D#-1	X		0	0		0			Very little smoke.
D-2	X		0	0		0			
D-3	X		0	0		0			
U#-1	X		0	0		0		The carpet pile burns only 1-2 seconds.	
U-2	X		0	0		0			
U-3	X		0	0		0			
1		X	1	0		0			
2		X	4	0		0			
3		X	20	0		0			

CALC		REVISED	DATE
CHECK	S. Michalek	4/25/87	
APPD			
APPD			

C/S
 A3-704
 D6-1084
 D6-6250TR
 PAGE

* Carpet pile in "down" position.
 ** Carpet pile in "up" position.

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION 10-60214-61 MAT'L TYPE Carpet with Pad BML 5737

IDENTIFICATION COLOR CODE, BAC NO. 171 Red/Gray/Black MATERIAL Wool

MANUFACTURER Gullistan PROPOSED USE Floor Covering

TEST METHODS AND REQUIREMENTS BMS 8-36. Shall extinguish (no time limit) when tested in the horizontal position with the carpet pile in the down position. Char length shall not exceed 3 inches.

DEVIATION FROM TEST METHOD

- Also tested with the carpet pile in the up position.
- Also tested in the vertical position.

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Fill									
D*-1	X		28	0		0			Only the foam burned
D-2	X		19	0		0			
D-3	X		1	0		0			
U**-1	X		2	0		0			
U-2	X		0	0		0			
U-3	X		1	0		0			
1		X	44	0			1/4		
2		X	49	0			1/4		
3		X	49	0			1/4		

* Carpet pile in "down" position.
 ** Carpet pile in "up" position.

CALC		REVISED	DATE
CHECK	S. Michalski	4/25/67	
APPD			
APPD			

C/S
 A3-704
 D6-6250TN
 D6-1084
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE											
IDENTIFICATION		Canadian Pacific Carpet for 737-217			MAT'L TYPE		Textile			EML 7082	
IDENTIFICATION COLOR CODE, BAC NO.		#124 Porto Red			MATERIAL		Carpet				
MANUFACTURER		Not Known			PROPOSED USE		Floor Covering				
TEST METHODS AND REQUIREMENTS		Test Method: FAA FSSR #453 Requirement: Burn rate shall not exceed 4 in./min.									
DEVIATION FROM TEST METHOD		Horizontal Position Only									
SAMPLE NO.	MATERIAL POSITION	VERT.	HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS	
Warp											
1	X			260	0	1	3/4	1105	.55	Slight Grey Smoke	
2	X							900	.67		
3	X										
Fill											
1	X							1200	.50	Slight Grey Smoke	
2	X							980	.61		
3	X							1050	.57		

CALC		REVISED	DATE	CB 6-7612 4-181
CHECK				
APPD				
APPD				
				D6-1084
				D6-6350 TR
				PAGE

62

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Carpet #65-33263-25 MAT'L TYPE Carpet & Underlay IML 7671

IDENTIFICATION COLOR CODE, BAC NO. BAC #148 Red MATERIAL: Wool Pile, Polyurethane Foam underlay

MANUFACTURER Gulistan #YK 2385-A15 PROPOSED USE Floor Covering.

TEST METHODS AND EMS 8-36A REQUIREMENTS Materials shall be self-extinguishing in both warp and fill directions when tested in the horizontal position. Maximum char length shall be 3 inches.

DEVIATION FROM TEST METHOD Also tested in vertical position.

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
W-1	X		0		0.75	0			Horizontal position. Carpet pile self-extinguishing from 0-19.38 seconds. Underlay extinguished from 6.25 to 27.5 seconds. Small amount of smoke evolved. Melting, no dripping. Vertical position: Carpet material self-extinguishing from 0 to 75.3 sec. Foam underlay burned on one specimen at a rate of 1.64 inches/minute. Heavy odor of wool. Ignitable gases evolved.
W-2	X		8.15		3.25	0			
W-3	X		10.63		2.0	0			
F-1	X		0		2.0	0			
F-2	X		19.38		1.5	0			
F-3	X		8.75		1.5	0			
W-1		X	0		2.0	0			
W-2		X	20.2		2.5	0			
W-3		X	75.3		3.5	0			
F-1		X	34.0		3.0	0			
F-2		X	61.1		2.5	0			
F-3		X	45.4		3.0	0			

CALC	R. Forte	1/2	REVISED	DATE
CHECK				
APPD				
APPD				

c/s 6-7812-1
4-1052
D6-1084
D6-6250TN
PAGE

28

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE									
IDENTIFICATION	Air France Carpet #BE663.0.0056	MAT'L TYPE	Textile	MML	7483				
IDENTIFICATION COLOR CODE, BAC NO.	Dark Brown	MATERIAL	Wool Pile, Natural Fiber Backing						
MANUFACTURER	Customer Supplied	PROPOSED USE	Floor Covering						
TEST METHODS AND REQUIREMENTS	BMS 8-36A, Section 8.3.								
Material shall be self-extinguishing in both warp and fill directions when tested in horizontal position. Maximum char length shall be 3 inches.									
DEVIATION FROM TEST METHOD									
SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
W-1	X		0	0	1.00	0			Horizontal position. Self-extinguishing in zero seconds. Small amount of smoke and odor. No melting or dripping. Afterglow due to natural fiber backing. Self-extinguishing due to high density wool pile.
W-2	X		0	0	0.75	0			
W-3	X		0	0	1.00	0			
F-1	X		0	0.9	1.75	0			
F-2	X		0	1.7	2.00	0			
F-3	X		0	1.7	1.50	0			

REVISED	DATE		

67-6-7612-
 4-1035
 D6-1084
 D6-6250TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Carpet No. TA 6706-BD-221 MAT'L TYPE Textile RML
 IDENTIFICATION COLOR CODE, BAC NO. MATERIAL Polypropylene/Treated Jute
 MANUFACTURER Gullistan Carpet PROPOSED USE Floor Covering

TEST METHODS AND REQUIREMENTS D6-8099

FAR 25.853(b). The average burn rate must not exceed four inches per minute when tested in the horizontal position.

DEVIATION FROM TEST METHOD

Tested "As Received"

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER CLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Fill								
1	X	120.9		1.00	0			Melting, no dripping. Moderate amount of gray smoke evolved. Pungent odor.
2	X	239.8		1.60	0			
3	X	61.1		0.75	0			
Warp								
1	X	0		1.00	0			Melting, dripping, drippings burned. Excessive amount of gray smoke evolved. Pungent odor.
2	X	182.5		1.75	1.00			
3	X	137.9		1.75	0			
4	X			10.0		93.5	6.42	

CALC	R. J. Forte	2/22/68	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
 6-7612-4-1325
 D6-1084
 D66250TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE										
IDENTIFICATION		Carpet No. JA 6706-BD-221			MAT'L TYPE		Textile			EML
IDENTIFICATION		COLOR CODE, BAC NO.			MATERIAL		Polypropylene/Treated Jute			
MANUFACTURER		Gulistan Carpet			PROPOSED USE		Floor Covering			
TEST METHODS AND REQUIREMENTS		D6-8099								
<p>FAR 25.853(b). The average burn rate must not exceed four inches per minute when tested in the horizontal position.</p>										
DEVIATION FROM TEST METHOD										
Tested after cleaning.										
SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS	
Washed Once										
Warp 1	X		3.5		1.25	0			Melting, no dripping. Moderate amount of gray smoke evolved. Pungent Odor.	
2	X		64.1		1.00	0.5				
3	X		0		1.25	0				
Fill 1	X		0		1.0	0				
2	X		0		1.0	0				
Washed Twice										
Warp 1	X		6.0		1.25	0				
2	X		3.9		1.50	0				
3	X		2.7		1.25	0				
Fill 1	X		34.9		1.25	0				
2	X		3.7		1.25	0				
										74.2
										6.47

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CALC	R. L. Forte	9-22-68	REVISED	DATE																		
CHECK																						
APPD																						
APPD																						

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION 1 MAT'L TYPE Textile Products BML
 IDENTIFICATION COLOR CODE, BAC NO. MATERIAL Vinyl-Fiberglass Fabric-Neoprene Laminata
 MANUFACTURER John Schneller & Assoc., Inc. PROPOSED USE Floor Covering

TEST METHODS AND REQUIREMENTS
 Test Method: D6-8099 Flame Resistance
 Requirement: D6-9069, Shall extinguish in 15 seconds or less.

DEVIATION FROM TEST METHOD

1 Aeromat Tweed. 45RNS-VP. Color 1000/985. Pattern #20. Weight: 76.48 oz/yd. sq.

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	X	0		1.0	0			Horizontal: Little to moderate white smoke evolved. Vertical: Moderate black and white smoke evolved.
	X	0		1.0	0			
	X	0		1.0	0			
	X	0		1.25	0			
	X	0		1.00	0			
	X	0		1.00	0			

CALC	S. Michalski	9/20/67	REVISED	DATE
CHECK				
APPD				
APPD				

C/B
 6-7612-100
 D6-1084
 D6-6250TH
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

BML 7968

IDENTIFICATION Vinyl Laminate-Unsupported MAT'L TYPE Thermoplastic

IDENTIFICATION COLOR CODE, BAC NO. 10-60776-191 MATERIAL Vinyl

MANUFACTURER Polyplastex PROPOSED USE Floor Covering

TEST METHODS AND REQUIREMENTS Test Method: D6-8099 Flame Resistance Requirement: D6-9069. Shall extinguish in 15 seconds or less when tested in the horizontal and vertical positions.

DEVIATION FROM TEST METHOD

CALC	S. Nichols	2-16-68	REVISED	DATE
CHECK				
APPD				
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SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
	X		0		.75	0			
	X		0		.75	0			
	X		0		.75	0			
		X	0		1.25	0			
		X	0		1.50	0			
		X	0		1.50	0			

4-13-68
D6-1084
66-6246TN
PAGE

70

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Vinyl Floor Mat MAT'L TYPE Thermoplastic MML

IDENTIFICATION COLOR CODE, BAC NO. 10-60199-724 MATERIAL Vinyl

MANUFACTURER PROPOSED USE Floor Covering

TEST METHODS AND REQUIREMENTS
 Test Method: D6-8099 Flame Resistance
 Requirement: D6-9069. Shall extinguish in 15 seconds or less when tested in horizontal and vertical positions.

DEVIATION FROM TEST METHOD

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
	X		0		1.0	.75			
	X		0		1.12	.75			
	X		0		1.0	.63			
		X	0		1.75	.25			
		X	0		2.00	.25			
		X	0		1.75	.25			

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C/S
 6-7612-4-1080
 D6-1084
 D6-6246TN
 PAGE

CATEGORY 5

FLOOR COVERING: CARPETS, AND VINYL FLOOR COVERING

TESTED AT 1575°F, USING NATURAL GAS.

CAT-5
B-211

FLOOR COVERINGS

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	CCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				CCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
AZ-6343 R/01, All Wool Mohasco "Tiles" Carpet IBR Clark & Burchfield	(1)410 (2)222 (3)173 (4)449	0 0 0 0	12* 5.7 4.1 11*	- - - -	- - - -	- - - -	- - - -	- - - -	(1) Untreated - only one specimen in horizontal test. Vertical specimens drip and burn (2) Treated by California Flame- proofing process #7. (3) Treated by California Flame- proofing process #8. (4) Treated by Fire Retardant Chemical Services. * Entire specimen consumed.	
Style TWE 7796 Wool Carpet, Brown, piece 20458A Collins & Aikman	(1)20 (2)29	- -	0.5 0.8	2.6 3.7	- -	- -	- -	- -	(1) Warp (2) Fill	
Style TWE 7833, Wool Carpet, Beige, piece 20458B Collins & Aikman	(1)18 (2)21	- -	0.7 0.4	3.3 3.5	- -	- -	- -	- -	(1) Warp (2) Fill	
Style TWE 7532, Wool Carpet, Blue, piece 753501 Collins & Aikman	(1) 6 (2) 8	- -	0.5 0.3	2.8 2.8	- -	- -	- -	- -	(1) Warp (2) Fill	
YK-2368-L, Wool Yarns with Poly- ester backing (Vycron) and fire retardant Latex backing Gulistan Carpet Co.	(1) 8 (2) 8	- -	0.2 0	2.4 1.8	- -	- -	- -	- -	(1) Warp - only two specimens (2) Fill - only two specimens	
AZ-6343 R.01 Treated All Wool Mohasco "Tiles" Carpet, IBR Clark & Burchfield	375	-	10.2	-	-	-	-	-	Back burned readily - facing only charred.	
M.C. 25781/1, All Wool Surface Yarns, Mohasco Exp. Carpet - Mohasco Industries, Inc.	1	8	0.5	3.5	3	0	3.4	5.9		
25783 Mohasco experimental Carpet with all wool surface yarns (57 oz/yd ²) Mohasco Industries, Inc.	(1) 0 (2) 3	0 0	0.1 0.1	3.4 3.5	- -	- -	- -	- -		
E-118 Carpet, All Wool Collins & Aikman	15	0	0.9	-	-	-	-	-		
Carpet, M.O. 25817, All Wool Surface Yarns with Polyester backing fabric and regular back coating #371 Vinyl Mohasco Industries, Inc.	-	-	-	-	(1)17 (2)16	0 0	3.7 3.3	5.8 5.5	(1) Warp (2) Fill	
Carpet, M. O. 25815, All Wool Surface Yarns with Fiberglass backing fabric and regular Back Coating #371 Vinyl Mohasco Industries, Inc.	-	-	-	-	(1) 2 (2) 2	0 0	0.2 0.1	4.8 4.0	(1) Warp (2) Fill	
Carpet, M. O. 25818, All Wool Surface Yarns with Verel backing fabric and Special Coating #374R Mohasco Industries, Inc.	-	-	-	-	(1) 6 (2) 2 (3) 0 (4) 5	0 0 0 0	3.2 3.8 3.8 2.8	4.0 4.5 4.8 3.7	(1) Warp - Single pass (2) Fill - Single pass (3) Warp - Double pass (4) Fill - Double pass	
AZ-1049 R/01 Carpet, Wool Strata; 96-02 EAL: Mohasco Industries, Inc.	645	18	10*	-	-	-	-	-	* Entire specimen	
Carpet, Wool, YK-2314-AD Gulistan	9	0	0.2	3.9	36	0	2.8	5.9		
DA-1052, K60, Carpet, Acrilan Surface Yarn, Durlon backing yarn, Permascote backing Mohasco Industries, Inc.	168	0	12*	-	-	-	-	-	* Entire specimen	
DA-615E, K367 No. 4, Carpet, Acrilan surface yarn, Durlon backing yarn, Permascote backing Mohasco Industries, Inc.	138	0	12*	-	-	-	-	-	* Entire specimen	
AZ-9466, R/03, Carpet, "Burgundy", Acrilan Mohasco Industries, Inc.	155	0	12*	-	-	-	-	-	* Entire specimen	
AZ-6333, R/03 (Cal #79) Carpet, Acrilan, Mohasco Industries	122	01	10*	-	-	-	-	-	* Entire specimen	
AZ-1028, R/01, Carpet, Acrilan, 60-oz. TWA 45775 Subs Mohasco Industries, Inc.	142	3.2	10*	-	-	-	-	-	* Entire specimen	

FLOOR COVERINGS

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	CCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				CCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
AZ-1039, R/01, Carpet, Acrilan, Blue Triple Tone, 56-oz. UAL Tourist Mohasco Industries, Inc.	138	61	10*	-	-	-	-	-	* Entire specimen	
AZ-1159, R/01, Moorea Carpet, 100% Acrilan Pile Mohasco Industries, Inc.	160	0	8.5*	-	-	-	-	-	* Entire specimen	
AZ 3621, R/02, Carpet, "Mindanao" Acrilan Mohasco Industries, Inc.	199	62	12*	-	-	-	-	-	* Entire Specimen	
AZ-1117, R/01, Carpet, Acrilan, 60% Acrilan, 30% Verel, 10% Dynel Grey Mohasco Industries, Inc.	43	0	2.6	6.4	-	-	-	-		
DA 1031D-K-150, Carpet, Bright Red, Mohasco Industries, Inc.	180	0	12*	-	-	-	-	-	* Entire specimen	
3005-3, Carpet, Acrilan: Aero Heights Red, 58-oz. UAL First-class James Lees & Sons Co.	146	40	10*	-	-	-	-	-	* Entire specimen	
YK 2463, EDWIK Carpet, Acrilan Verel, Gullistone Carpet Co.	179	0	12*	-	-	-	-	-	* Entire specimen	
70% Acrylic & 30% Nylon, Blue Green Caravelle & Printed Carpet (Gold). Trend Mills of California	359	7	12*	-	-	-	-	-	* Entire specimen	
TWE 7243 (TRC) Carpet, Dynel, Collins & Aikman	1	0	0.1	-	-	-	-	-		
Carpet, Dynel "No Burn" Collins & Aikman	0	0	0.5	1.6	-	-	-	-		
Carpet, 100% Dynel Multi-colored Royal Rust Collins & Aikman	0	0	1.2	-	-	-	-	-		
Carpet, Dynel "No Burn after 3 launderings" Collins & Aikman	0	0	0.5	2	-	-	-	-		
Carpet, Dynel "No Burn" after 3 comm'l dry clean Collins & Aikman	0	0	0.5	1.8	-	-	-	-		
Carpet, Dynel "No Burn" after ecc-T-1916 Dry Clean Collins & Aikman	0	0	0.5	2.5	-	-	-	-		
Carpet, M. O. 25795 - All Nomet surface yarns with Polyester backing fabric and regular back coating #371 Vinyl Mohasco Industries, Inc.	(W) 8 (F) 6	0	0.5	1.4	228	0	12.0*	-	* Entire specimen	
513 Carpet, Westminster, Ice Green, Westminster Carpets Ltd.	142	751	10*	-	-	-	-	-	* Entire specimen	
Polypropylene throwaway UAL Carpet, ST-4613-2, piece 2010-4914, Collins & Aikman	(1)333	180	12*	-	-	-	-	-	(1) Warp * Entire specimen	
"Boltflex 100" Protective Floor Mat, Bolta Products	15	0	0	0.6	-	-	-	-		
Durug Floor Covering, Vinyl coated Fiberglass Durecoats Corp.	0	2	0.5	-	-	-	-	-		
Fanflor Mint Chips on special coated Kodecel, WP/M Polyplastex	0	0	0.6	-	-	-	-	-		
Sage Fanflor Chips special coated Kodecel, WP/M Polyplastex	0	0	0.5	-	-	-	-	-		
Carpet, "Star Trek", Orbit Orange, Universal Carpets, Inc.	115	0	2.4	5.3	63	0	4.3	7.7		
Carpet, "Star Trek", Martian Green, Universal Carpets, Inc.	95	0	3.3	6.0	48	0	3.1	6.5		

CATEGORY 6

INSULATION

TESTED AT 1450°F, USING
PROPANE GAS.

CAT-6
13-214

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Composite Blanket MAT'L TYPE Blanket **BML**
 IDENTIFICATION COLOR CODE, BAC NO. BMS 8-115 & BMS 8-48 MATERIAL MATERIAL
 BMS 8-115 - Duracote
 MANUFACTURER BMS 8-48 - Owens-Corning PROPOSED USE Insulation Blanket

TEST METHODS AND REQUIREMENTS FSSR #453

DEVIATION FROM TEST METHOD

A composite blanket using BMS 8-48 insulation and BMS 8-115 covering was used instead of a single material.

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SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED CHAR LENGTH INCHES		BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.			LENGTH	INCHES			
5a	45°	Angle	14.5	10.0					There was no burn through and the composite passes the test.
5b	45°	Angle	8.5	3.3					
5c	45°	Angle	9.0	0.0					
5d	45°	Angle	0.0	0.0					

C/S 6-7612-
 278
 D6-8099
 BMS 8-115
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Insulation Blanket MAT'L TYPE Insulation Materials MLL

IDENTIFICATION COLOR CODE, BAC NO. MATERIAL See I

MANUFACTURER PROPOSED USE Thermal Acoustical Insulations

TEST METHODS AND REQUIREMENTS The blanket assembly I was tested for flame resistance per D6-8099 except specimen holders were not used.

DEVIATION FROM TEST METHOD

I Both sides and edges of BMS 8-48, Type I, Class III fiberglass insulation (6 layers) covered with BMS 8-95, Type I coated fabric. The size of blanket was approximately 3 feet square.

SAMPLE NO.	MATERIAL POSITION:	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	X	0			1.0			Horizontal and Vertical. a. Char length of assembly: 1/2". b. Char length of coated fabric: As shown.
	X	0			1.5			
	X	0			1.2			
	X	0			4.37			
	X	0			5.0			
	X	0			5.0			

CALCS	S. Michalski	11-9-67	REVISED	DATE
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APPD				
APPD				

C/S
6-7612-4-387
06-1084
06-6250
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION BMS 8-48, All Types and Classes MAT'L TYPE Insulation RML
 IDENTIFICATION COLOR CODE, BAC NO. MATERIAL, Fiberglas-Phenolic Binder
 MANUFACTURER Thermal Acoustical Insulation

TEST METHODS AND REQUIREMENTS

Test Method: D6-8099, Flame Resistance
 Requirement: Shall extinguish (no time limit). The char length shall not exceed 4" in the horizontal and 8" in the vertical.

DEVIATION FROM TEST METHOD

CALC	<u>S. Michalski</u>	<u>11-9-67</u>	REVISED	DATE
CHECK				
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SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	X	0			.25			
	X	0			.25			
	X	0			.25			
	X X X	0			.50			
	X X X	0			.50			
	X X X	0			.50			

C/S
 6-6712-4-387
 D6-1084
 D6-625000
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Melamine Nozzle MAT'L TYPE Thermoset EML

IDENTIFICATION COLOR CODE, BAC NO. MF 390 (Light Blue) MATERIAL Melamine

MANUFACTURER York Industrial Plastics PROPOSED USE Air Distribution Nozzle

TEST METHODS AND REQUIREMENTS

Test Method: D6-8099 Flame Resistance

Requirement: Shall extinguish (no time limit). The char length shall not exceed 4 inches in the horizontal and 8 inches in the vertical.

DEVIATION FROM TEST METHOD

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER CLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
1	X	0		.5	0			Little smoke evolved.
2	X	0		.25	0			
3	X	0		.38	0			
1	X	0		.63	0			
2	X	0		.75	0			
3	X	0		.25	0			

CALC	J. Michalski	11-9-67	REVISED	DATE
CHECK				
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APPD				

C/S
6-7612-4-387
D6-1084
D6-6488TW
PAGE

CATEGORY 7

LEATHERS (CATEGORY NUMBER DELETED. REFER TO CATEGORY 4.)

CATEGORY 8

FLEXIBLE COUPLING AIRDUCTS

TESTED AT 1450°F, USING
PROPANE GAS.

CAT-8
B-220

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE										
IDENTIFICATION		Air Ducts - Flexible (Sheet 1 of 2)			MAT'L TYPE		Textile			BML
IDENTIFICATION		COLOR CODE, BAC NO.			MATERIAL		Rubber Coated Fabric			
MANUFACTURER		PROPOSED USE								
TEST METHODS AND REQUIREMENTS		Test Method: D6-8099 Flame Resistance								
REQUIREMENTS		Requirement: Shall not exceed 4 in./min. when tested in the horizontal position								
DEVIATION FROM TEST METHOD										
SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS	
	VERT.	HORIZ.								
1		X	2.2-7.2	0	.5-.6	0-.2			BMS 8-17, Form 3, Type I, Grade G, Class 2, P/N BACD40A8-84-6-31	
2	X	X	0-2	0	.3-.7	0-.2			BMS 8-17, Form 1, Type 1, Grade A, Class 2, P/N BACD40B4-60-5-4	
3	X	X	2.8-2.9	0	.6-1.9	.3-.9			BMS 8-17, Form 1, Type I, Grade B, Class 2, P/N BACD40B3-36-5-10	
4	X	X	0-1.4	0	1.5-1.7	.7-1.2			BMS 8-17, Form 1, Type I, Grade G, Class 2, P/N BACD40B8-96-6-32	
5	X	X	7.2-12	0	0.5	0.5			BMS 8-17, Form 1, Type II, Grade A, Class 2, P/N BACD40B7-54-3-5	
6	X	X	2.8-5.8	0	1.4-2.2	.7-1.4			BMS 8-17, Form 1, Type II, Grade B, Class 2, P/N BACD40B4-44-3-11	
	X	X	1.2-5.3	0	.5-.8	0				
	X	X	0-8.9	0	.7-2.0	0				
	X	X	0-3	0	.5-.7	.5-.7				
	X	X	1.3-1.5	0	1.4-1.6	.8-1.0				
	X	X	1.6-7.5	0	.5-.6	.5-.6				
	X	X	6.8-17.6	0	.9-2.1	.9-2.1				

CALC		REVISED	DATE		D6-1084
CHECKED	S. Michalski		12/26/67		D6-6250
APPD					
APPD					
PAGE					

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Air Ducts - Flexible (Sheet 2 of 2) MAT'L TYPE Textile BML

IDENTIFICATION COLOR CODE, BAC NO. MATERIAL Rubber Coated Fabric

MANUFACTURER PROPOSED USE

TEST METHODS AND REQUIREMENTS Test Method: D6-8099 Flame Resistance Requirement: Shall not exceed 4 in./min. when tested in the horizontal position

DEVIATION FROM TEST METHOD

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
7		X	.8-1.2	0	.6-.7	.6-.7			BMS 8-17, Form 1, Type II, Grade E, Class 3, P/N BACD4OB8-70-8-24
8	X	X	.6-4.3	0	.6-1.9	.6-1.9			BMS 8-17, Form 1, Type III, Grade D, Class 1, P/N BACD4OB8-79-6-21
9	X	X	10.5-11.5	0	.1-.5	.1-.3			BMS 8-17, Form 1, Type III, Grade F, Class 2, P/N BACD4OB8-84-6-33
10	X	X	6.5-9.2	0	.2-.4	0-.2			BMS 8-17, Form 1, Type III, Grade F, Class 3, P/N BACD4OB8-8-5-36
11	X	X	9.9-12.3	0	.5	.3-.8			BMS 8-17, Form 1, Type III, Grade G, Class 2, P/N BACD4OB8-80-7-39
		X	22.4-24.3	0-.4	.2-.4	0-.3			
		X	46.1-72.2	0	1-4	.6-1.3			
	X	X	0	0	0-.2	0			

CALC		REVISED	DATE
CHECK	S. Michalski		12/26/47
APPD			
APPD			

D6-1084
D6-6250
PAGE

CATEGORY 8

FLEXIBLE COUPLING AIRDUCTS

TESTED AT 1575°F, USING
NATURAL GAS.

CAT-8
B-223

HOSES AND DUCTS

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	CCG-T-191b, METHOD 5902 12 SEC. EXPOSURE				CCG-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
Hose, air; To electrical and oxygen box in utility panel. (5913501.504); TWA 3-4715	58	0	12*	-	-	-	-	-	*Entire specimen consumed	
Hose, oxygen; to electrical and oxygen box in utility panel. (5913501.504); TWA	5	0	1.0	-	-	-	-	-		
Hose, used as coupling between air distributor duct and side panel. S-2329441 (used)	4	0	0	-	-	-	-	-		
Hose, used as coupling between air distributor duct and side panel. S-2329441 (new)	3	0	0	-	-	-	-	-		
Duct assembly; 5910122-23 fiberglass, ABS covered area . bare area	2 41	0 0	0 0.5	-	-	-	-	-		
Hose, smoke detector unit, Stratoflex 193, LP.MIL-H. 55933-6	88	0	1.3	-	-	-	-	-		
Unit, smoke detector MIL-H-6000, size 1/2-20-66, part no. AN 6270-6-12	10	0	0.1	-	-	-	-	-		

CATEGORY 9

TRANSPARENCIES: PASSENGER WINDOWS, LIGHTPLATES, AND WINDSCREENS

TESTED AT 1450°F, USING PROPANE GAS.

CAT-9
B-225


TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Windscreen Laminated - 1/4" Thick MAT'L TYPE Thermoplastic EML

IDENTIFICATION COLOR CODE, BAC NO. MATERIAL See 

MANUFACTURER Laminated by Heath Techna Plastic PROPOSED USE Windscreen

TEST METHODS AND REQUIREMENTS
 Test Method: D6-8099 Flame Resistance
 Requirement: Shall extinguish (no time limit). The char length shall not exceed 4 inches in the horizontal and 8 inches in the vertical.

DEVIATION FROM TEST METHOD
 Laminated Construction: 0.10 Plexiglas II Acrylic + 0.05 Polyvinyl Butyrate + 0.10 Plexiglas II Acrylic.

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	X						258.0	2.32	

CALC	S. Michalski	11-9-67	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
 6-7612-4-887
 D6-1084
 D6-6251TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Lightplate D MAT'L TYPE Thermoplastic BML
 IDENTIFICATION COLOR CODE, BAC NO. MATERIAL, Acrylic, MIL-P-5425
 MANUFACTURER PROPOSED USE

TEST METHODS AND REQUIREMENTS Test Method: D6-8099 Flame Resistance
 Requirement: Shall not exceed 4 in/min. when tested in the horizontal position.

DEVIATION FROM TEST METHOD

D Flight Control Module (3/16" thick lightplate with 1/16" thick metal backing).

CALC	S. Michalski	11-9-67	REVISED	DATE
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SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
	X		93			.25			
	X		113			.38			
	X						552	1.08	

C/S
 6-7612-4-387
 D6-1084
 D6-6246TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Exit Light Housing (0.12 thick) MAT'L TYPE Thermoplastic **FML**
 IDENTIFICATION COLOR CODE, BAC NO., BAC 10-60091-131 MATERIAL Cellulose Acetate Butyrate
 MANUFACTURER PROPOSED USE

TEST METHODS AND REQUIREMENTS

Test Method: D6-8099 Flame Resistance
 Requirement: Shall not exceed 4 in/min. when tested in the horizontal position.

DEVIATION FROM TEST METHOD

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	X					825	0.72	Very little smoke. Excessive melting and dripping. Dripping continue to burn. Moderate size flame. The drippings burned with a larger flame than the size of the flame on the specimen.
	X					760	0.79	
	X					316	1.90	

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CHECK				
APPD				
APPD				

C/S
 6-7612-4-887
 D6-1084
 D6-6246TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Exit Light Housing (0.073 thick) MAT'L TYPE Thermoplastic BML
 IDENTIFICATION COLOR CODE, EAC NO. MATERIAL Acrylic
 MANUFACTURER Grimes 11-0381-7 PROPOSED USE

TEST METHODS AND REQUIREMENTS D6-8099 Flame Resistance
 Requirement: Shall not exceed 4 in/min. when tested in the horizontal position.

DEVIATION FROM TEST METHOD

CALC	<u>B. Michalski</u>	<u>11-9-67</u>	REVISED	DATE
CHECK				
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SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	X X					945 827	0.635 0.725	1. Horizontal: Moderate to large flame. Used screen to hold specimen. Very little smoke. Some dripping. The drippings burned.
	X					79	7.60	2. Vertical Very large flame. Some melting and dripping.

C/S
 6-7612-4-187
 D6-1084
 D6-6246TH
 PAGE
 75

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Window Reveal 65-49664 MAT'L TYPE Thermoplastic ML

IDENTIFICATION COLOR CODE, BAC NO. White color MATERIAL Cycolac (ABS)

MANUFACTURER △ PROPOSED USE Window Reveal

TEST METHODS AND REQUIREMENTS Test Method: D6-8099 Flame Resistance
 Requirement: Shall not exceed 4 in/min. when tested in the horizontal position.

DEVIATION FROM TEST METHOD

△ Cycolac molding compound supplied by Marbon Chemical.

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
		X					294	2.04	Moderate flame. Large amount of smoke evolved.

CALC	S. Michalski	11-9-67	REVISED	DATE
CHECK				
APPD				
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C/S
 6-7612-4-387
 D6-1084
 D6-6246TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Sun Vinyl 69-2524-3 MAT'L TYPE Thermoplastic ML
 IDENTIFICATION COLOR CODE, BAC NO. Green Transparent MATERIAL Cellulose Acetate
 MANUFACTURER Cel Corp. PROPOSED USE

TEST METHODS AND REQUIREMENTS Test Method: D6-8099 Flame Resistance
 Requirement: Shall not exceed 4 in/min. when tested in the horizontal position

DEVIATION FROM TEST METHOD Thickness: 0.060 inches.

CALC		REVISED	DATE
CHECK	S. Michalski	12/26/67	
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SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
	X						175	3.43	Moderate black smoke. Dripped continuously. Drippings burned.
	X						215	2.79	

c/86-76-2-4-528
 D6-1084
 D6-6246TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION SE-3 Acrylic, 0.060 thick MAT'L TYPE Transparency BML
 IDENTIFICATION COLOR CODE, BAC NO. MATERIAL, Acrylic

MANUFACTURER Rohm and Haas PROPOSED USE Dust cover transparency

TEST METHODS AND REQUIREMENTS D6-8099 Flame and Fire Resistance

DEVIATION FROM TEST METHOD

* Flame Resistance Data

** Fire Resistance Data

CALC	J. Freemott	1-29-68	REVISED	DATE
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SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1 *	X		0	0	1/4"	1/8"			Outgassing and light smoke evolved. No penetration.
2 *	X		0	0	1/4"	1/8"			
3 *	X		0	0	1/4"	1/8"			
4 *	X	X	0	0	1/4"	1/8"			
5 *		X	0	0	1/4"	1/8"			
6 *		X	0	0	1/4"	1/8"			
7 **			0	0					

c/s6-7612-4-
 1078
 D6-1084
 D6-8286
 D6-8251
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Lexan 9600 MAT'L TYPE Thermoplastic EML
 IDENTIFICATION COLOR CODE, BAC NO. Transparent MATERIAL Polycarbonate
 MANUFACTURER General Electric PROPOSED USE

TEST METHODS AND Test Method: D6-8099 Flame Resistance
 REQUIREMENTS Shall extinguish (no time limit). Char length shall not exceed 4 inches when tested in the horizontal position and 8 inches when tested in the vertical position.

DEVIATION FROM TEST METHOD
 1 0.030 thick specimens.
 2 0.060 thick specimens.
 3 0.125 thick specimens.

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1	X		7,9,5	0	.75-1.0	.25-.37			Little smoke evolved. Some melting. No dripping.
1	X		6,6,6	0	.25-.50	.12			
2	X		0,0,0	0	.25-.50	.12			
2	X		1,2,1	0	.25-.50	.12			
3	X		0,0,0	0	.25-.50	.12			
3	X		0,1,1	0	.25-.50	.12			

CALC S.	Michalski	1-29-66	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
 6-7612-4-1080
 D6-1084
 D6-6246TN
 PAGE

CATEGORY 9

TRANSPARENCIES: PASSENGER WINDOWS, LIGHTPLATES, AND WINDSCREENS

TESTED AT 1575°F, USING NATURAL GAS°

CAT-9
B-235

TRANSPARENCIES - WINDOWS AND WINDSCREENS

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	DOD-T-191b, METHOD 5902 12 SEC. EXPOSURE				DOD-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
Acrylic, 0.080 in. thick	7.8 Min.	0	12*	-	-	-	-	*Entire Specimen		
Self-extinguishing acrylic 0.060 in. thick 0.125 in. thick 0.187 in. thick 0.250 in. thick	- - - -	- - - -	- - - -	- - - -	12 0 0 0	0 0 0 0	2.0 0.6 0.3 0.4	3.0 1.2 0.9 0.9		
Acrylic, 0.125 in. thick	202	0	1.0	7.5	-	-	-	-		
Acrylic, 0.525 in. thick	33 Min.	0	3	10.5	-	-	-	-		
Acrylic, 0.125 in. thick	15 Min.	0	10*	-	-	-	-	-	*Entire Specimen	
Acrylic, 0.440 in. thick	14.7 Min.	0	2.5	6	-	-	-	-		
Acrylic, with abrasion resistant coating on both sides & edges	600+	-	12.0*	-	-	-	-	-	*Entire Specimen	
Acrylic, 0.090 in. thick	309	0	12*	-	-	-	-	-	*Entire Specimen	
Acrylic, 0.060 in. thick	996	0	12*	-	-	-	-	-	*Entire Specimen	
Cast acrylic, 0.080 in. thick	7.6	0	12*	-	-	-	-	-	*Entire Specimen	
Acrylic windscreen, 0.25 in. thick	540	0	7.3*	-	-	-	-	-	*Entire Specimen Only 2 specimens tested	
Polycarbonate windscreen, 0.25 in. thick	0	0	0	-	-	-	-	-	Only one specimen tested	
Polycarbonate windscreen, 0.26 in. thick	-	-	-	-	3	0	0	1.6		
Polycarbonate windscreen, 0.255 in. thick	-	-	-	-	1	0	0.2	2.0		
Polycarbonate windscreen, 0.265 in. thick	-	-	-	-	3	0	0	1.6		

CATEGORY 10

VINYL - ALUMINUM LAMINATE

REFER TO CATEGORY 11

CAT-10
B-237

CATEGORY 11

DECORATIVE LAMINATES: VINYL, ALUMINUM, FORMICA, AND THERMOSET

TESTED AT 1450°F, USING PROPANE GAS.

CAT-11
B-238

118

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE				
IDENTIFICATION Thermoplastic Sheet		MAT'L TYPE EMS 8-89B, Type I, Class 2 EML 6860		
IDENTIFICATION COLOR CODE, BAC NO. See (1) through (9)		MATERIAL Fedlar-Vinyl Aluminum Laminate		
MANUFACTURER Polyplastex		PROPOSED USE Decorative Interior		
<p>TEST METHODS AND REQUIREMENTS D6-8099. Fire Resistant Test Shall be fire-resistant. No penetration of flame through material during application of test flame. If the material ignites, flame shall self-extinguish within 15 seconds. Afterglow shall not exceed 10 seconds.</p>				
DEVIATION FROM TEST METHOD				
(1) 10-60775-118	(4) 10-60776-122	(7) 10-60776-130		
(2) 10-60776-119	(5) 10-60776-125	(8) 10-60776-132		
(3) 10-60776-120	(6) 10-60776-126	(9) 10-60776-133		
MATERIAL				
SOURCE NO.	MATERIAL POSITION		BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.		
(1)				All nine materials meet requirements and are non-burning.
(2)				
(3)				
(4)				
(5)				Slight amount of smoke evolved.
(6)				
(7)				
(8)				
(9)				1 1/2 inch scorch mark on all specimens

CALC		REVISED		DATE	
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C/S
 6-7612-4-56
 05-1084
 05-6245TH
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Toilet Shroud (approx. wall thickness: MAT'L TYPE Polyester & Fiberglass EML

IDENTIFICATION COLOR CODE, BAC NO. 0.077") MATERIAL 1

MANUFACTURER Weber Aircraft

PROPOSED USE

TEST METHODS AND REQUIREMENTS

Test Method: D6-8099 Flame Resistance. See D

Requirement: Shall extinguish (no time limit). The char length shall not exceed 4 inches in the horizontal and 8 inches in the vertical.

DEVIATION FROM TEST METHOD

D Weber Aircraft Specification WPS-915A, dated 6-29-65. The polyester resin specified in WPS-915A specification is Laminac 4146. Note: The toilet shroud was not available for testing. 0.06 thick specimens using Laminac 4146 and molded per BAC 5458, were tested.

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
		X	0	0	.5	0			Small amount of grey smoke evolved.
		X	0	0	.5	0			
		X	0	0	.5	0			
	X		0	0	.5	0			
	X		0	0	.25	0			
	X		0	0	.87	0			

CALC	S. Michalski	11-30-67	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
6-7612-4-470
D6-1084
D6-6487TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Dispenser Cabinet MAT'L TYPE Polyester Fiberglass **MMI**
 IDENTIFICATION COLOR CODE, BAC NO. MATERIAL 1
 MANUFACTURER Weber Aircraft PROPOSED USE

TEST METHODS AND REQUIREMENTS
 Test Method: D6-8099 Flame Resistance. Note: Thickness of Test Specimens: .052-.072. Specimens cut from dispenser cabinet.
 Requirement: Shall extinguish (no time limit). The char length shall not exceed 4 inches in the horizontal and 8 inches in the vertical.
 DEVIATION FROM TEST METHOD
 Weber Specification WMS #22 optional #23 entitled "Polyester Resin Impregnated Panel".
 The polyester resin used was Hetrion 92.

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CALC	S. Michalski	11-30-67	REVISED	DATE

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
	X		50.6		1.5	1.0			1. Little to moderate black smoke and soot evolved. 2. When the ignition flame was applied to the edge of the assembly positioned in the vertical position, the assembly had a burn rate. Burning was due to the repair resin. The non-repaired areas extinguished.
	X		18.4		1.25	.5			
	X		5.9		.63	.25			
	X		3.0		.75	.25			
		X	29		.75	.12			
		X	46		.75	.63			
		X	24		.63	.50			

C/S
 6-7612-4-170
 D6-1084
 D6-6487TH
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

EML

IDENTIFICATION Escape Slide Shroud MAT'L TYPE Thermoplastic

IDENTIFICATION COLOR CODE, BAC NO. MATERIAL ▶

MANUFACTURER Boeing Facilities PROPOSED USE

TEST METHODS AND REQUIREMENTS D6-8099 Flame Resistance
 Requirement: Shall extinguish (no time limit). Char length shall not exceed 4 inches in the horizontal and 8 inches in the vertical.

DEVIATION FROM TEST METHOD ▶ Unsupported Semi-Rigid Vinyl (10-60128-100) bonded to 0.063 aluminum.

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	X		0		.50	0			
	X		0		.50	0			
	X		0		.50	0			
	X		0		.75	0			
	X		0		.75	0			
	X		0		.75	0			

CALC	S. Michaleki	11-30-69	REVISED	DATE
CHECK				
APPD				
APPD				

C/B
 6-7612-4-470
 D6-1084
 D6-6246TM
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Bulkhead Panel MAT'L TYPE Thermoplastic **BML**
 IDENTIFICATION COLOR CODE, BAC NO. MATERIAL **A**
 MANUFACTURER PROPOSED USE

TEST METHODS AND REQUIREMENTS
 Test Method: D6-8099 Flame Resistance
 Requirement: Shall extinguish (no time limit). Char length shall not exceed 4 inches in the horizontal and 8 inches in the vertical.

DEVIATION FROM TEST METHOD
 D10-60199-467 (69-17020-3030F vinyl bonded to BMS 8-43, Type 20 fiberglass sheet).

CALC	S. Michalski	11-30-69	REVISED	DATE
CHECK				
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SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
	X		1.5		1.0	.75			1. Horizontal: Little smoke evolved. 2. Vertical: Moderate black smoke evolved.
	X		1.8		1.25	.87			
	X		1.0		1.12	.87			
		X	1.0		1.75	.50			
		X	0.9		1.87	.50			
		X	3.4		2.00	.50			
		X	2.9		1.62	.50			

C/S
 6-7612-4-70
 D6-1084
 D6-6246TH
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Counter Apron MAT'L TYPE Polyester and Fiberglass/BML

IDENTIFICATION COLOR CODE, BAC NO. MATERIAL 1

MANUFACTURER Weber Aircraft PROPOSED USE

TEST METHODS AND REQUIREMENTS
 Test Method: D6-8099 Flame Resistance
 Requirement: Shall extinguish (no time limit). The char length shall not exceed 4 inches in the horizontal and 8 inches in the vertical.

DEVIATION FROM TEST METHOD
 1 Fiberglass chopped strands and resin per Weber Specification #21, optional #22. The resins specified in these specifications are Hetrion 92 or Laminac 4146. Note: The counter apron was not available for testing. 0.060 thick specimens, using Hetrion 92 resin and manufactured per BAC 5427, were tested.

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
	X		0	0	1.0	0			
	X		0	0	1.0	0			
	X		0	11.0	.63	0			
	X		1.4	7.5	.75	0			

CALC	S. Michalski	11-30-67	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
 6-7612-4-70
 D6-1084
 D6-6487TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Modesty Shield - Aft Airstairs MAT'L TYPE Polyester / Glass EML
 IDENTIFICATION COLOR CODE, BAC NO. MATERIAL 1
 MANUFACTURER PROPOSED USE

TEST METHODS AND REQUIREMENTS

Test Method: D6-8099 Flame Resistance
 Requirement: Shall extinguish (no time limit). The char length shall not exceed 4 inches in the horizontal and 8 inches in the vertical.

DEVIATION FROM TEST METHOD

1 10-60782-321 (Both sides of BMB 8-2, Type 13 painted with epoxy SRF 14.903-7053).

CALC	S. Michalaki	11-30-87	REVISED	DATE
CHECK				
APPD				
APPD				

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
	X		1.0		.87	.5			1. Horizontal: Little black smoke and soot evolved. 2. Vertical: Moderate to large black smoke and soot evolved.
	X		.5		.75	.5			
	X		.5		1.0	.63			
		X	0		2.0	1.25			
		X	0		2.5	1.12			
		X	0		1.75	1.0			

C/S
 6-7612-4-170
 D6-1084
 D6-6487TH
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

EML

IDENTIFICATION Epoxy Painted Aluminum

MAT'L TYPE

IDENTIFICATION COLOR CODE, BAC NO.

MATERIAL

MANUFACTURER

PROPOSED USE

TEST METHODS AND REQUIREMENTS

Test Method: D6-8099 Flame Resistance

Requirement: Shall extinguish (no time limit). The char length shall not exceed 4 inches in the horizontal and 8 inches in the vertical.

DEVIATION FROM TEST METHOD

1 0.047 thick aluminum panel. Surface treatment plus primer per D2-5000, Section SRF 2.30 plus epoxy paint per D2-5000, Section SRF 12.63. Color was grey.

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	X	0		0	0			No ignition. The painted side yellowed in the ignition area.
	X	0		0	0			
	X	0		0	0			
	X	0		0	0			
	X	0		0	0			
	X	0		0	0			

CALC	S. Michalski	11-30-67	REVISED	DATE
CHECK				
APPD				
APPD				

C/B
6-7612-4-470
D6-1084
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Foot Rest Cover 1 MAT'L TYPE Thermoplastic BML

IDENTIFICATION COLOR CODE, BAC NO. Dark Grey MATERIAL 2

MANUFACTURER Duracote PROPOSED USE

TEST METHODS AND Test Method: D6-8099 Flame Resistance
 REQUIREMENTS Shall not exceed 4 in/min. when tested in the horizontal position.

DEVIATION FROM TEST METHOD 1 2
 Duracote During Style V230-18VS Thickness: approx. 0.12"
 Vinyl/Fiberglass Fabric

CALC		REVISED	DATE
CHECKS	S. Michalski	12/26/67	
APPD			
APPD			

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	X		1.4		.75	.06			
	X		1.1		1.0	.12			
	X		0		.5	.06			
		X	0		1.0	.12			
		X	0		.75	.25			
		X	0		1.00	.25			

c/B6-7612-
 4-528
 05-1004
 06-828078
 06-828078
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Case End Cap 0.035 thick MAT'L TYPE Polyester Glass Reinforced ML
 IDENTIFICATION COLOR CODE, BAC NO. MATERIAL ▷
 MANUFACTURER _____ PROPOSED USE _____

TEST METHODS AND REQUIREMENTS D6-8099 Flame Resistance
Shall not exceed 4 inch/min. when tested in the horizontal position.

DEVIATION FROM TEST METHOD

▷ Hetron 92 polyester resin reinforced with glass fabric and manufactured per BAC 5419.

CALC	S. Michalek	11-30-67	REVISED	DATE
CHECK				
APPD				
APPD				

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	X		0		.5	0			
	X		0		1.5	0			

C/S
 6-7612-4-470
 66-1084
 66-6487TH
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE								
IDENTIFICATION	Crew Compartment Lining	10	MAT'L TYPE Thermoplastic					
IDENTIFICATION COLOR CODE, BAC NO.	GRAY		MATERIAL					
MANUFACTURER	PROPOSED USE							
TEST METHODS AND REQUIREMENTS	Test Method: D6-8099 Flame Resistance Requirement: Shall extinguish (no time limit) when tested horizontally and vertically. Char length shall not exceed 4" in the horizontal and 8" in the vertical.							
DEVIATION FROM TEST METHOD	One layer of epoxy impregnated fiberglass fabric (approximately 0.010 thick) bonded to Royalite 50 ABS plastic.							
SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
1	X	12			1.25			▲ 0.052 thick
2	X	9			1.25			▲ 0.050-0.052 thick
3	X	21			1.5			▲ 0.048-0.049 thick
4	X	3			1.0			▲ 0.039 thick
5	X	34			2.25			▲ 0.041 thick
6	X	2			1.5			▲ 0.034 thick
7	X	2			1.0			▲ 0.050 thick
8	X	2			.75			▲ 0.046 thick
9	X	0			.5			▲ 0.043 thick

CALC S.	Michalski	11-9-67	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
 6-7612-4-387
 06-1084
 06-6246TH
 PAGE

3

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Vinyl Aluminum Laminates MAT'L TYPE Thermoplastic EML

IDENTIFICATION COLOR CODE, BAC NO. 1C-60776-182 MATERIAL

MANUFACTURER Polyplastex PROPOSED USE Decorative Interior

TEST METHODS AND REQUIREMENTS Test Method: D6-8099 Flame Resistance Requirement: D6-9069. Shall extinguish in 15 seconds or less when tested in the horizontal and vertical position.

DEVIATION FROM TEST METHOD

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	X	0		.5	0			
	X	0		.5	0			
	X	0		.5	0			
	X	0		.75	0			
	X	0		.75	0			
	X	0		.87	0			

CALC	S. Michalski	2-16-68	REVISED	DATE
CHECK				
APPD				
APPD				

D6-1084
D6-62467N
PAGE

4

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Vinyl Aluminum Laminate MAT'L TYPE Thermoplastic EML
 IDENTIFICATION COLOR CODE, BAC NO. 10-60776-174 MATERIAL
 MANUFACTURER Polyplastex PROPOSED USE Decorative Interior

TEST METHODS AND REQUIREMENTS D6-8099 Flame Resistance
 D6-9069. Shall extinguish in 15 seconds or less when tested in the vertical

DEVIATION FROM TEST METHOD

CALC	S. Michalski	2-76-68	REVISED	DATE
CHECK				
APPD				
APPD				

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES		CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.			INCHES	INCHES				
	X		0		.18	0	0			
	X		0		.5	0	0			
	X		0		.5	0	0			
		X	0		.5	0	0			
		X	0		.75	0	0			
		X	0		.75	0	0			

DL-1084
 DL-6246TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Mylar Aluminum Laminate MAT'L TYPE Thermoplastic EML

IDENTIFICATION COLOR CODE, BAC NO. _____ MATERIAL PROPOSED USE Cove-Lower and Upper Panels

MANUFACTURER _____

TEST METHODS AND REQUIREMENTS

Test Method: D6-8099 Flame Resistance.
 Requirement: Shall extinguish (no time limit). Char length shall not exceed 4 inches in the horizontal and 8 inches in the vertical.

DEVIATION FROM TEST METHOD

10-60199-419 (0.001 thick Mylar laminated to 0.025 thick aluminum).

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
	X		0		.75	0			
	X		0		.75	0			
	X		0		.75	0			
		X	0		.63	0			
		X	0		1.0	0			
		X	0		.87	0			

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C/S
 6-7612-4-70
 D6-1084
 D6-6246TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Decorative Sandwich Laminate MAT'L TYPE Thermoplastic MMU
 IDENTIFICATION COLOR CODE, BAC NO. See 1 MATERIAL, Vinyl MMS 8-2 Laminate

MANUFACTURER J. Schneller PROPOSED USE Curved Ceiling Panels

TEST METHODS AND Test Method: D6-8999 Flame Resistance.

REQUIREMENTS Requirements: D6-9069. Shall be self-extinguishing in 15 seconds or less.

DEVIATION FROM TEST METHOD

1 10-60782-347 sprayed with BAC #712 vinyl ink.

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SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
1	X	0		1	0			Horizontal: Little to moderate white smoke evolved. Vertical: Large amount of black and white smoke evolved.
2	X	0		1	0			
3	X	0		1	0			
4	X	0		2	0			
5	X	0		2.14	0			
6	X	0		2	0			

C/S
 SM-9
 D6-62467N
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Thermoplastic Sheet MAT'L TYPE **BMS 8-89B, Type I, Class 2 ML** 6860

IDENTIFICATION COLOR CODE, BAC NO. See (1) through (9) MATERIAL **Tedlar-Vinyl Aluminum Laminate**

MANUFACTURER **Polyplastex** PROPOSED USE **Decorative Interior**

TEST METHODS AND REQUIREMENTS

D6-8099. Fire Resistant Test
 Shall be fire-resistant. No penetration of flame through material during application of test flame. If the material ignites, flame shall self-extinguish within 15 seconds. Afterglow shall not exceed 10 seconds.

DEVIATION FROM TEST METHOD

- | | | |
|------------------|------------------|------------------|
| (1) 10-60776-118 | (4) 10-60776-122 | (7) 10-60776-130 |
| (2) 10-60776-119 | (5) 10-60776-125 | (8) 10-60776-132 |
| (3) 10-60776-120 | (6) 10-60776-126 | (9) 10-60776-133 |

MATERIAL

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
(1)		0	0					All nine materials meet requirements and are non-burning. Slight amount of smoke evolved. 1 1/2 inch scorch mark on all specimens
(2)		0	0					
(3)		0	0					
(4)		0	0					
(5)		0	0					
(6)		0	0					
(7)		0	0					
(8)		0	0					
(9)		0	0					

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C/S
 6-7612-4-356
 D6-1084
 D6-6246TN
 PAGE

61

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE																																						
IDENTIFICATION Vinyl Fiberglass Laminate	MAT'L TYPE Thermoplastic RML 7599																																					
IDENTIFICATION COLOR CODE, BAC NO. 10-60199-480	MATERIAL Tedlar/Vinyl/Fiberglass Laminate																																					
MANUFACTURER Polyplastex	PROPOSED USE Decorative Interior																																					
<p>TEST METHODS AND REQUIREMENTS</p> <p>Test Method: D6-8099 Flame Resistance.</p> <p>Requirement: D6-9069 Shall extinguish in 15 seconds or less when tested in the horizontal and vertical positions.</p>																																						
DEVIATION FROM TEST METHOD																																						
SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS																														
1	X	0	0	2.00	0			Little smoke evolved.																														
2	X	0	0	2.00	0																																	
3	X	0	0	1.50	0																																	
1	X	0	0	1.00	0																																	
2	X	0	0	1.00	0																																	
3	X	0	0	1.00	0																																	
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">CALC</td> <td style="width: 20%;">S. Michalski</td> <td style="width: 20%;">1/12/68</td> <td style="width: 20%;">REVISED</td> <td style="width: 20%;">DATE</td> </tr> <tr> <td>CHECK</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>APPD</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>APPD</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	CALC	S. Michalski	1/12/68	REVISED	DATE	CHECK					APPD					APPD					<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">C/S</td> <td style="width: 50%;">1047</td> </tr> <tr> <td>6-7612-4</td> <td></td> </tr> <tr> <td>D6-1084</td> <td></td> </tr> <tr> <td>D6-6246TN</td> <td></td> </tr> <tr> <td>PAGE</td> <td></td> </tr> </table>								C/S	1047	6-7612-4		D6-1084		D6-6246TN		PAGE	
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C/S	1047																																					
6-7612-4																																						
D6-1084																																						
D6-6246TN																																						
PAGE																																						

55

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Vinyl Aluminum Laminate MAT'L TYPE Thermoplastic EML 7599
 IDENTIFICATION COLOR CODE, BAC NO. 10-60776-190 MATERIAL Vinyl/Aluminum
 MANUFACTURER PROPOSED USE Decorative Interior

TEST METHODS AND REQUIREMENTS

Test Method: D6-8099 Flame Resistance.
 Requirement: D6-9069. Shall extinguish in 15 seconds or less when tested horizontally and vertically.

DEVIATION FROM TEST METHOD

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1	X		0	0	1.50	0			
2	X		0	0	1.00	0			
3	X		0	0	0.75	0			
1		X	0	0	1.00	0			Little smoke evolved.
2		X	0	0	0.75	0			
3		X	0	0	1.25	0			

CALC	S. Michalski	1/12/68	REVISED	DATE
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APPD				
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C/S
 6-7612-4
 D6-1084
 D6-6246TN
 PAGE

1047

54

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION	Vinyl Aluminum Laminate	MAT'L TYPE	Thermoplastic	MML	7599
IDENTIFICATION COLOR CODE, BAC NO.	10-60776-188	MATERIAL	Vinyl/Aluminum		
MANUFACTURER	PROPOSED USE Decorative Interior				
TEST METHODS AND REQUIREMENTS	Test Method: D6-8099 Flame Resistance. Requirement: D6-9069. Shall extinguish in 15 seconds or less when tested horizontally and vertically.				
DEVIATION FROM TEST METHOD					

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SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1	X		0	0	1.00	0			Little smoke evolved.
2	X		0	0	1.25	0			
3	X		0	0	1.00	0			
1		X	0	0	0.50	0			
2		X	0	0	1.00	0			
3		X	0	0	1.00	0			

C/S
6-7612-4-
D6-1084
D6-6246TM
PAGE

45

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Decorative Sandwich Laminate MAT'L TYPE Thermoplastic RML

IDENTIFICATION COLOR CODE, BAC NO. 10-60782-3004 MATERIAL, Tedlar/Vinyl/Fiberglass Laminata

MANUFACTURER PROPOSED USE Decorative Interior

TEST METHODS AND REQUIREMENTS
 Test Method: D6-8099 Flame Resistance.
 Requirement: D6-9069 Shall extinguish in 15 seconds or less when tested horizontally and vertically.

DEVIATION FROM TEST METHOD

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
1	X	0		1.6	0			Moderate black smoke evolved.
2	X	0		1.5	0			
3	X	0		1.75	0			
1	X	7.7		4.25	0			
2	X	4.8		2.8	0			
3	X	2.5		2.5	0			

CALC	S. Michalski	1-12-58	REVISED	DATE
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C/S
 6-7612-4-1047
 D6-1084
 D6-6246TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION/Window Shade Material	MAT'L TYPE Thermoplastic		EML 5942	
IDENTIFICATION COLOR CODE, BAC NO.	MATERIAL Mylar-Aluminum-Vinyl Laminate			
MANUFACTURER C. R. Daniels	PROPOSED USE Window Shade			
TEST METHODS AND REQUIREMENTS	Test Method: D6-8099 Flame Resistance Requirement: D6-9069. Shall extinguish in 15 seconds or less.			
DEVIATION FROM TEST METHOD				

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SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Fill									
1	x		0.2	0	6.25	6.00			Horizontal & Vertical Large Amount of Smoke evolved.
2	x		0.1	0	5.75	5.50			
3	x		0.3	0	6.00	5.75			
Warp									
1	x		0.1	0	6.25	4.50			
2	x		17.2	0	8.25	7.75			
3	x		0.3	0	5.25	4.75			
Warp									
1		x	0.2	0	1.75	1.25			
2		x	0.4	0	1.25	0.75			
3		x	0.9	0	1.50	1.25			
Fill									
1		x	0.6	0	1.0	1.00			
2		x	0.4	0	1.25	1.00			
3		x	1.4	0	1.00	1.00			

C/S	SM-42
D6-6246TN	
PAGE	

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Duracote Window Shade, Y-9-3-66, MML 3963
 Duracote Window Shade, Y-9-3-66, MAT'L TYPE Thermoplastic

IDENTIFICATION COLOR CODE, BAC NO. MATERIAL See (1)

MANUFACTURER Duracote Corporation PROPOSED USE Window Shade

TEST METHODS AND Flame Resistance per D6-8099. No requirements established.
 REQUIREMENTS

EXPLANATION INFORMATION

- (1) Mylar - Aluminum-Vinyl - Laminate
- (2) Scorched length shown. No burned or char length.

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Warp									
1	X		0	0	See(2)				Warp and Fill:
2	X		0	0	0				Little light smoke evolved.
3	X		0	0	0				
Fill									
1	X		0	0	0				
2	X		0	0	0				
3	X		0	0	0				
Warp									
1	X		0	0	3.75				
2	X		0	0	4.00				
3	X		0	0	5.00				
Fill									
1	X		0	0	4.00				
2	X		0	0	5.50				
3	X		0	0	6.00				

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C/S
 A3-535
 D6-1084
 D6-6246TR
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Dado Sponge Pad #65-24533-3A MAT'L TYPE Thermoplastic Foam EML
 IDENTIFICATION COLOR CODE, RAC NO. MATERIAL 

MANUFACTURER General Plastics Manufacturing Company PROPOSED USE

TEST METHODS AND Test Method: D6-8099 Flame Resistance. Note: The assembly was tested.
 REQUIREMENTS

Requirement: Shall extinguish (no time limit). The length shall not exceed 4 inches in the horizontal and 8 inches in the vertical.

DEVIATION FROM TEST METHOD

 Flexible thermoplastic over foam.

CALC	S. Michalski	11/28/67	REVISED	DATE
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SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
	X		1.0		.87	.75			1. Horizontal
	X		1.6		.37	.25			a. Ignition flame was applied to various areas on the pad.
	X		1.0		.63	.63			b. Little black smoke evolved.
		X	0		1.25	.25			2. Vertical
		X	0		1.00	.25			a. Same as 1.a.
		X	0		1.00	.25			b. Little to moderate black smoke evolved

C/8 6-7612-4-470
 D6-1084
 D6-6245TH
 D6-6246TH
 PAGE


TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE




IDENTIFICATION Attendant Seat Cushion 65-58269 MAT'L TYPE Thermoplastic and Foam

IDENTIFICATION COLOR CODE, BAC NO. MATERIAL 

MANUFACTURER PROPOSED USE

TEST METHODS AND REQUIREMENTS Test Method: D6-8099 Flame Resistance Note: The seat assembly was tested.
Requirement: Shall not exceed 4 in/min when tested in the horizontal position

DEVIATION FROM TEST METHOD  Vinyl covered Foam

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	X		1.0		1.75	1.0			The ignition flame was applied to various areas on the assembly.  Ignition flame applied to vinyl covering and exposed foam
	X		1.1		2.00	1.25			
	X		0.8		1.75	1.25			
	X		1.2		2.25	1.00			
	X		0.9		2.5	2.00			
	X		1.0		2.62	.87			
	X		0.9 		2.75	.50			
	X		1.0 		2.5	.63			

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c/86-7612-4-528
06-1084
06-6246TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Eyebrow Window Padding #65-20775 Δ MAT'L TYPE Thermoplastic & Foam EML
 IDENTIFICATION COLOR CODE, BAC NO. MATERIAL Δ

MANUFACTURER

PROPOSED USE

TEST METHODS AND REQUIREMENTS Test Method: D6-8099 Flame Resistance. NOTE: The assembly was tested.
 Requirement: Shall extinguish (no time limit). The char length shall not exceed 4 inches in the horizontal and 8 inches in the vertical.

DEVIATION FROM TEST METHOD

Δ Pad Construction: Outer Covering: BMS 8-86, Type II Flexible ABS Plastic
 Center : BMS 8-57 Foam
 Inner Covering: BMS 8-86, Type II Flexible ABS Plastic


CALC	S. Michalski	11-0-67	REVISED	DATE
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SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Δ	X	0		1.5	.25			Δ The ignition flame was applied to various areas on the outer covering of the eyebrow pad assembly.
	X	0		1.87	.50			
	X	0		1.25	.75			
	X	0		1.00	.75			
	X	0		1.00	1.00			
	X	0		1.25	1.25			
	X	0		1.00	.13			


C/S
 6-7612-4-387
 06-1084
 06-6246TH
 PAGE

TEST REPORT DATA SHEET

Bullnose Hatrack
 MATERIAL TYPE Assembly #65-24240
 BAC CODE _____
 PROPOSED USE _____

MANUFACTURER _____
 CODE _____
 MATERIAL See  on Sheet 4 of 4

EXPLANATORY INFORMATION:








 Bullnose consists of an outer vinyl covering, foam and a metal back.

CHARACTERISTIC	TEST METHOD	DEVIATION FROM TEST METHOD	REQUIREMENT	RESULTS
Fire Resistance of Hatrack Bullnose	F.A.A. FSSR #453		Shall extinguish in 15 seconds or less. No penetration. No afterglow after 10 seconds.	1. Extinguished from zero to 3 seconds. 2. No afterglow. 3. No penetration. NOTE: The ignition flame was applied to various areas on the ABS side of the bullnose.

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D6-6245TN
 D6-6250TN

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 6-7612-4-18°
 D6-1084
 D6-6246TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE									
IDENTIFICATION		Bullnose of Hatrack Assembly #65-24240 MAT'L TYPE Thermoplastic & Foam BML							
IDENTIFICATION COLOR CODE, BAC NO.		MATERIAL See  on Sheet 3 of 4							
MANUFACTURER		PROPOSED USE							
TEST METHODS AND REQUIREMENTS		<p>Test Method: D6-8099 Flame Resistance. NOTE: The bullnose assembly was tested for flame resistance. See .</p> <p>Requirement: Shall extinguish (no time limit) when tested in the horizontal and vertical positions. The char length shall not exceed 4 inches in the horizontal and 8 inches in the vertical.</p>							
DEVIATION FROM TEST METHOD		<p> The bullnose assembly that was tested consisted of an outer flexible ABS covering, foam and a metal back.</p>							
SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
 →	X		14.0			0.25			 The ignition flame was applied to various points on the ABS side of the bullnose.
	X		2.8						
 →	X		1.5						 The bullnose was cut transversely. The ignition was applied to the cut end.
	X		5.0		1.75	0.25			
	X		2.0		1.50	0.12			
	X		4.0		1.50	0.25			
		X	4.7						
		X	1.4						

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APPD			
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D6-6245TN
D6-6250TN

C/S
6-7612-4-887
D6-1084
D6-6246TN
PAGE

TEST REPORT DATA SHEET

MATERIAL TYPE Hatrack Assembly of #65-24240 MANUFACTURER _____
 BAC CODE _____ CODE _____
 PROPOSED USE _____ MATERIAL See 1 on Sheet 1 of 4

EXPLANATORY INFORMATION:

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CHARACTERISTIC	TEST METHOD	DEVIATION FROM TEST METHOD	REQUIREMENT	RESULTS
Fire Resistance of Hatrack Assembly. Ignition flame applied to perforated and non-perforated vinyl coated fiberglass fabric 10-60782-213.	F.A.A. FSSR #453		Shall extinguish in 15 seconds or less. No penetration. No afterglow after 10 seconds.	a. Extinguished immediately. b. No penetration. c. No afterglow NOTE: The above results apply to perforated and non-perforated 10-60782-213.

D6-6245TN
D6-6250TN

C/S
6-7612-4-387
D6-1084
D6-6246TN
PAGE

CATEGORY 12

POTTING COMPOUNDS AND SEALANTS

TESTED AT 1450°F, USING PROPANE GAS.

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

ML 6105

MAT'L TYPE

MATERIAL Phenolic Microballoon-Filled Epoxy

PROPOSED USE

RP 305

Red-Brown

INCIDENTAL

REN

TEST METHODS AND

D6-8099

REVISIONS FROM TESTS

Ignition time in horizontal position - 12 sec.

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SAMPLE NO.	MATERIAL POSITION		EXPIRE TIME SECS.	AFTER FLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1	X				10		145.4	4.1	Heavy black smoke, much popping, crackling. Many burning particles thrown off.
2	X				10		127.7	4.7	
3	X				10		140.8	4.3	
4		X			10		2053	.3	
5		X			10		1318	.5	
6		X			10		1320	.5	

C/B
A3-763
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

ML 6105

MAT'L TYPE

XP-432-154

MATERIAL Filled Epoxy
Fairing Compound

COLOR CODE, INC NO.

PROPOSED USE

TEST METHODS AND
REFERENCES D6-8099

REMOVED FROM TEST METHOD

Ignition time in horizontal position 12 sec.

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SAMPLE NO.	VERTICAL POSITION		BURNING TIME SECS.	AFTER FLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1	X		1.1	0	1.0	0			Moderate Smoke. Some sputtering and popping during ignition. Strong odor.
2	X		1.0	0	1.1	0			
3	X		0.8	0	1.1	0			
4		X	0	0	.4	0			
5		X	0	0	.8	0			
6		X	1.5	0	.6	0			

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CATEGORY 13

ADHESIVES AND TAPES

TESTED AT 1450°F, USING
PROPANE GAS.

CAT-13
B-272

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE		IDENTIFICATION COLOR CODE, BAC NO. <u>Off-white</u>		MATERIAL <u>Homex - See (2)</u>				
Homex Velcro Tape Assembly, 1" wide, Non-adhesive Backed. See (2)		MAT'L TYPE <u>Textile</u>		EML				
MANUFACTURER <u>American Velcro, Inc. See (1)</u>		PROPOSED USE <u>Fastener</u>						
TEST METHODS AND REQUIREMENTS		TEST Method: D6-8099 Flame-Resistant Method. Note: Three 1" wide pile tapes and three 1" wide hook tapes were sewn with fiberglass thread to form 2-3/4" wide test specimens.						
Requirement: Proposed FAA regulations specify zero extinguishing time in the horizontal and 2-second extinguishing time in the vertical.								
DEVIATION FROM TEST METHOD								
(1) Distributor: The Hartwell Corporation.								
(2) An assembly consists of one pile and one hook tape. It is made from Homex except the hook part is nylon. Hook Tape No.: H-485, Pile Tape No.: 8-481.								
SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
Ass'y See (3)								
1	X	0		0.63	0			(3) Assembly: One 2-3/4" wide pile tape was assembled to one 2-3/4" wide hook tape to form a test specimen. Little to moderate black smoke.
2	X	0		0.50	0			
3	X	0		0.75	0			
4	X	2.0		1.62	0.63			
5	X	1.5		1.12	0.25			
6	X	1.0		1.37	0.50			
Pile See (4)								
1	X	0		0.62	0.25			(4) The pile tape was tested alone. Little to moderate white and black smoke was evolved
2	X	0		0.62	0.25			
3	X	0		0.62	0.25			
4	X	2.0		1.75	1.25			
5	X	1.0		1.50	1.25			
6	X	2.0		1.87	1.37			

CALC		REVISED	DATE	C/S 6-7612-4-137 D6-1084 D6-6250TN PAGE
CHECK				
APPD				
APPD				

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

Homeex Velcro Tape Assembly, 1" wide, MAT'L TYPE See Sheet 1 of 2. RML

IDENTIFICATION Non-adhesive Backed, See (2) MATERIAL, See Sheet 1 of 2.

IDENTIFICATION COLOR CODE, BAC NO. See Sheet 1 of 2. PROPOSED USE See Sheet 1 of 2.

MANUFACTURER See Sheet 1 of 2.

TEST METHODS AND REQUIREMENTS See Sheet 1 of 2.

DEVIATION FROM TEST METHOD

CALC		REVISED	DATE
CHECK			
APPD			
APPD			

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
1	X		28		1.25	0.75			(5) The hook tape was tested alone. Little-to-moderate white and black smoke was evolved.
2	X		52		1.87	1.75			
3	X		19		1.25	1.25			
4	X						180 Sec (6)	3.33	(6) Estimated time.

C/S 6-7612
4-137
D6-1084
D6-6250TM
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE										
IDENTIFICATION		Nomex Velcro Tape Assembly, 1" Wide, Adhesive Backed. See (2)			MAT'L TYPE		Textile			EML
IDENTIFICATION COLOR CODE, BAC NO.		Off-White			MATERIAL		Nomex - See (2)			
MANUFACTURER		American Velcro Inc. See (1)			PROPOSED USE		Fastener			
TEST METHODS AND REQUIREMENTS		Test Method: D6-8099 Flame-Resistant Method. Note: Three 1" wide pile tapes and three 1" wide hook tapes were sewn with fiberglass thread to form 2-3/4" wide test specimens.								
Requirement:		Proposed FAA regulations specify zero extinguishing time in the horizontal and 2-second extinguishing time in the vertical.								
DEVIATION FROM TEST METHOD		(1) Distributor: The Hartwell Corporation.								
(2)		An assembly consists of one pile and one hook tape. It is made from Nomex except the hook part is nylon. Hook Tape No. H-486. Pile Tape No. P-482.								
SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS	
	VERT.	HORIZ.								
Ass'y. See (3)										
1	x		0		0.75	0			(3) Assembly: One 2-3/4" wide pile tape was assembled to one 2-3/4" wide hook tape to form a test specimen. Little to moderate black and white smoke evolved. No melting or dripping.	
2	x		0		0.75	0				
3	x		0		0.75	0				
4		x	1.0		1.62	0.25				
5		x	1.0		1.25	0.37				
6		x	0.5		1.50	0.50				
Pile See (4)									(4) The pile tape was tested alone. Little to moderate black smoke evolved. No melting or dripping.	
1	x		0		0.62	0.37				
2	x		0		0.50	0.25				
3	x		0		0.50	0.25				
4		x	2.0		1.62	1.25				
5		x	1.5		1.75	1.00				
6		x	1.0		1.87	1.62				

CALC		REVISED	DATE
CHECK			
APPD			
APPD			

C/8
6-7612-4-37
06-1084
06-6250TM
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Nomex Velcro Tape Assembly, 1" wide, Adhesive Backed. See (2) on Sheet 1 of 2 MAT'L TYPE Textile EML

IDENTIFICATION COLOR CODE, BAC NO. Off-White MATERIAL Nomex - See (2)

MANUFACTURER American Velcro, Inc. See (1) PROPOSED USE Fastener

TEST METHODS AND REQUIREMENTS See Sheet 1 of 2.

DEVIATION FROM TEST METHOD

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Hook See (5)									
1	X		12		1.12	0.75			(5) The hook tape was tested alone. Little to moderate black and white smoke evolved.
2	X		11		0.87	0.75			
3	X		9		1.00	0.75			
4		X	78		6.37	6.00			

CALC		REVISED	DATE
CHECK			
APPD			
APPD			

C/S
6-7612-4-137
06-1084
06-6250TH
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE Nylon Velcro Tape Assembly, 1" wide, IDENTIFICATION See (2)		MAT'L TYPE <u>Textile</u>	MATERIAL <u>Nylon</u>	EML				
IDENTIFICATION COLOR CODE, BAC NO. <u>White</u>		PROPOSED USE <u>Fastener</u>						
MANUFACTURER <u>American Velcro, Inc. See (1)</u>		TEST METHODS AND REQUIREMENTS <u>D6-8099 Flame-Resistance Method. Note: Three 1" wide pile tapes and three 1" wide hook tapes were sewn with fiberglass thread to form 2-3/4" wide tapes. One 2-3/4" wide pile tape was assembled to one 2-3/4" hook tape to form a test specimen.</u>						
Requirement: <u>Proposed FAA regulations specify zero extinguishing time in the horizontal and 2-second extinguishing time in the vertical.</u>		DEVIATION FROM TEST METHOD (1) <u>Distributor: The Hartwell Corporation</u> (2) <u>An assembly consists of one pile and one hook tape.</u>						
SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT. HORIZ.							
1	x	84		1.5	1.5	169	3.55	Little smoke. Melting and dripping.
2	x			10	10	118	5.08	
3	x							

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APPD					
APPD					
					C/S 6-7612-4-137 D6-1084 D6-6250TH PAGE

TAPES - FLAME RESISTANCE

TAPE NO. 360 MANUFACTURER 3M Company
 DESCRIPTION Glass Cloth USE Noise Dampening

DATE TESTED	POSITION OF TEST	BURNED LENGTH, inches	SELF-EXTING. TIME, seconds	CLASSIFI-CATION	COMMENTS	
4-29-64	Vertical	1 1 1 1/4	0 0 0		No flame, moderate amount of smoke, sharp odor. NML 37 Tests run by Ted Brandon	
	Horizontal	1/2	0			
		3/4	0			
		1/2	0			

CALC		REVISED	DATE
CHECK			
APPD			
APPD			

D6-5249TN
 C/S
 6-7612-4-207
 PAGE

TAPES - FLAME RESISTANCE

TAPE NO. P-621 MANUFACTURER Permacel, Inc.
 DESCRIPTION Glass Cloth USE Noise Dampening

CALC		REVISION	DATE
CHECK			
APPD			
APPD			

DATE TESTED	POSITION OF TEST	BURNED LENGTH, inches	SELF-EXTING. TIME, seconds	CLASSIFICATION	COMMENTS
4-29-64	Vertical	2 1/2	0		No flame. large amount of Black smoke, sharp odor. NML 37 Tests run by Ted Brandon
		1 1/2	0		
		1 1/2	0		
	Horizontal	3/4	0		
		1/2	0		
			0		

D6-6249TN
 C/S
 6-7612-4-2DT
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Carpet Hold Down Tape MAT'L TYPE Tape EML
 IDENTIFICATION COLOR CODE, BAC NO. MATERIAL 1
 MANUFACTURER Rexnord P-50L PROPOSED USE

TEST METHODS AND REQUIREMENTS
 Test Method: D6-8099 Flame Resistance
 Requirement: Shall not exceed 4 in/min, when tested in the horizontal position.

DEVIATION FROM TEST METHOD
 1 Double Backed Cotton Cloth Tape. Rubber Adhesive.

CALC	S. Michalski	11-9-67	REVISED	DATE
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SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS

C/8
 6-7612-1-387
 D6-1084
 D6-62497X
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Velcro Tape - 2 Inch Dark Gray MAT'L TYPE Nylon MMI
 IDENTIFICATION COLOR CODE, BAC NO. MATERIAL
 MANUFACTURER Fastener PROPOSED USE Fastener

TEST METHODS AND REQUIREMENTS D6-8099 Flame Resistance
D6-9069. Shall extinguish in 15 seconds or less when tested in horizontal and vertical positions.

DEVIATION FROM TEST METHOD

Two specimens tested in the horizontal and one specimen tested in the vertical.
 To enable flame resistance testing, two pieces of tape were fastened together to obtain 3 inch widths.

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	X	28			1.25			Horizontal: Little white smoke evolved. Melted and dripped. The drippings burned. 4 of 5 specimens extinguished. Extinguishing due to melting and dripping. Vertical: Little white smoke. Melted and dripped. The drippings burned.
	X	19			1.0			
	X	20			1.0			
	X	4			0.25			
	X					175	3.43	
	X					60	10.0	

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APPD			
APPD			

c/s
 A3-613
 D6-1084
 D6-6250TN
 PAGE

CATEGORY 13

ADHESIVES AND TAPES

TESTED AT 1575°F, USING
NATURAL GAS.

CAT-13
B-283

PRESSURE-SENSITIVE TAPES

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	CCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				CCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
Arno C-100, Double-Face Tape (DPM 878-1)	29	213	10.0*	-	-	-	-	-	-	* Entire specimen
Tape, 43-179, Double-Faced, Arno	-	-	-	-	50	14	(1)7.0			(1) One specimen burned 10 in.
Fasson Products D.F. Double Face Tape	19	0	10.0*		-	-	-	-	-	* Entire specimen
Double Face Tape, XC-19-70 Kendall Co.	1	95	.5	-	-	-	-	-	-	
Batch 1291-478 Double-Face Tape, XC-19-70, Polyken, Kendall	1	61	2.7	-	0	23	5.5	-	-	
Double Face Cloth Tape, Polyken #103, Kendall Co.	0	86	3.7	-	-	-	-	-	-	
Double Face Tape, JM-351 Johns-Manville	40	180*	12*	-	-	-	-	-	-	* Entire specimen
Flame-resistant Cloth Tape, Polyken #203, (Polyken Sales Div., The Kendall Co.	22	13	4.8	-	-	-	-	-	-	
Polyken #219 Cloth Tape Kendall Co.	-	-	-	-	0	2	4.8	-	-	
Tuck #96 Cloth Tape Tuck Technical Tape Corp	1	29	.3	4.6	-	-	-	-	-	
ST-7174 Tape, Permaceel	0	0	3.9	-	-	-	-	-	-	
DPM #2493 Aluminum Tape	0	0	1.4	8.7	-	-	-	-	-	
Aluminum Foil Adhesive Tape, TLC-500, Tape & Label Converters	1	0	1.0	-	-	-	-	-	-	
Metalized Mylar Tape Tape & Label Converters	0	0	.3	(1)3.8 (2)1.0	-	-	-	-	-	(1) Mylar side (2) Adhesive side
Permaceel Tape, ST-7195, PVC, White	0	0	7.1	-	-	-	-	-	-	
DPM 1850 Black Vinyl Tape	66	0	12.0*	-	-	-	-	-	-	* Entire specimen
Slipknot #47, Flame Resistant Vinyl Tape, Plymouth Rubber	10	15	7.5	-	-	-	-	-	-	
Arno C-506 Cloth Tape Grey (DPM 871-5)	0	6	5.5	-	-	-	-	-	-	
ST-7309 Aluminum Tape, Permaceel	1	0	2.3	2.3	0	0	4.9	4.9		
P-290, Plastic Tape, Grey, Permaceel	16	3	8.3	8.3	0	5	5.1	5.1		
ST-7323 Double Face Cloth Tape, Permaceel	0	6	4.9	4.9	-	-	-	-	-	

CATEGORY 14

CELLULAR PLASTICS: FLEXIBLE, SEMI-RIGID, AND RIGID

TESTED AT 1450°F, USING PROPANE GAS.

Test Results of BMS 4-13 Materials ¹ Tested
per ASTM E-162-60T, Radiant Panel Test Method

BMS 4-13 Except as Noted Type/Grade	Brand of Foam Excepted as noted	Density of Foam lb/cu.ft.	Mean Flame Spread Index		Smoke Deposit mg.	
			²	³	²	³
1 / 1	Plasticell	5.7	1.53	0.83	0.3	0.3
1 / 2	Vinylcel	5.7	1.66	0.90	0.1	1.1
1 / 2	Rigicell	5.7	1.46	0.62	1.1	---
1 / 2	Balsa ⁴	---	0.62	0.55	0.2	0.1
1 / 4	Rigicell	4.1	0.49	0.83	0.4	---
3 / 2	Rigicell	5.7	15.30	5.89	0.4	---
2 / 1	Rigicell	5.7	10.70	74.40	3.8	---
2 / 3	Vinylcel	4.1	116.70	158.70	7.4	5.3
2 / 3	Balsa	---	41.65	75.08	2.0	3.5

¹ All panels were edge potted (not crimped) per D6-18333 and tested with carpet taped to the side of the panel away from the radiant panel heat source. The carpet with an integral foam pad on the underside was a typical 707/727 carpet.

² The test panel was modified by making a groove through the upper face skin (the thick face skin on the carpeted side of the panel). The slot was 0.10 inch x 8 inches and centered running lengthwise in the face skin.

³ The panel was not modified per ². The face skins and edge potting sealed in the PVC foam core during the test.

⁴ The panel was of the Type and Grade indicated, but was made per BMS 4-10 with balsa wood core.

10

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE												
IDENTIFICATION		Foam		MAT'L TYPE		Foam		EML				
IDENTIFICATION COLOR CODE, BAC NO.				MATERIAL								
MANUFACTURER				Not Known		PROPOSED USE		Crew Seat				
TEST METHODS AND REQUIREMENTS				<p>Test Method: D6-8099 Flame Resistance. Screen was not used. Requirement: Project memo 12.36. Shall extinguish within 30 seconds. Char length shall not exceed 4 inches when tested horizontally and 7 inches when tested vertically.</p>								
DEVIATION FROM TEST METHOD				<p>Styrofoam balls in polyurethane foam. Submitted by Weber Aircraft.</p>								
SAMPLE NO.	MATERIAL POSITION	VERT.	HORIZ.	EXTING. TIME SECS.		AFTER GLOW SECS.	BURNED LENGTH INCHES		CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
				SECS.	SECS.		INCHES	INCHES				
				0	3.8		0.75	0.75	0.75			Heavy black smoke evolved. Melting and Dripping.
				40.2	10.3		2.00	2.00	2.00			
				13.7			6.50	4.00	4.00			
				9.4	16.2		7.50	4.25	3.50			

CALC		REVISED	DATE
CHECK	S. Michalski	2/21/68	
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APPD			

c/s6-7612-1
1332
D6-6245TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Foam - Ensolite Type AH MAT'L TYPE Foam MAT'L TYPE Foam MML

IDENTIFICATION COLOR CODE, BAC NO. MATERIAL Uniroyal Delethalized Pad Backing

MANUFACTURER Uniroyal PROPOSED USE Delethalized Pad Backing

TEST METHODS AND REQUIREMENTS Test Method: D6-8099 Flame Resistance. Note: 3"x10"x0.87" thick specimens were used.

Requirement: Shall extinguish (no time limit). The char length shall not exceed 4 inches in the horizontal, and 8 inches in the vertical.

DEVIATION FROM TEST METHOD

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
X	X	X	0		0.25	0			
X	X	X	0		2.0	0			
X	X	X	0		0.25	0			
X	X	X	0		1.0	0			
	X	X	0		1.5	0			
	X	X	0		2.0	0			
	X	X	0		1.5	0			
	X	X	0		1.5	0			Moderate smoke evolved.

CALC	S. Miobalaki	11-30-67	REVISED	DATE
CHECK				
APPD				
APPD				

C78
6-7612-4-470
D6-1084
D6-6245TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Sponget Foam MAT'L TYPE Foam M.U. ML
 IDENTIFICATION COLOR CODE, BAC NO. Dark Grey MATERIAL Vinyl Foam
 MANUFACTURER B. F. Goodrich PROPOSED USE Sidewall Insulation

TEST METHODS AND REQUIREMENTS: D6-8099 Flame Resistance
Shall extinguish (no time limit). The char length shall not exceed 4 inches in the horizontal and 8 inches in the vertical.

DEVIATION FROM TEST METHOD
1/4" thick, medium hard.

CALC		REVISED	DATE
CHECK	<u>S. Michalski</u>		<u>12/26/67</u>
APPD			
APPD			

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
	X		1		1.75	1.5			Horizontal: Moderate black and grey smoke. Vertical: Moderate to large black and grey smoke.
	X		1.7		1.25	1.0			
	X		1.9		1.63	1.0			
		X	0		4.25	1.75			
		X	1.5		3.75	2.5			
		X	0		4.00	3.0			

c/s6-7612-4-528
 06-6245TN
 PAGE

CATEGORY 14

CELLULAR PLASTICS: FLEXIBLE, SEMI-RIGID, AND RIGID

TESTED AT 1575°F, USING NATURAL GAS.

CAT-14
B-290

FOAM

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	OCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				OCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
Rigid Polyurethane BX-250A 1/2" thick Density 2 lbs/cu. ft. Nopco Chemical Co.	-	-	-	-	0	0	1.6	6		
Nopco Pelsapan #333 Polystyrene Beads Nopco Chemical Co.	0	0	0	8	-	-	-	-		
Rigid Urethane CPR 9005-2 Rigid Board 1"	1	0	0.3	4.5	-	-	-	-		
CPR 739, Rigid S.E. Poly- urethane sheet, density 23-27 lbs/cu. ft. CPR	3.3	0	0	1	-	-	-	-		
Rigid Tridimensional Poly- urethane foam and E-glass (AMS 26), 1/2"	437	26	12.5*	-	-	-	-	-	*Entire specimen	
CPR 9011-20 Rigid Polyurethane Foam 20# Density	0	0	0.1	1.1	1	0	0.1	3.9		
Olin/Polytron XZ67-17A, Polyurethane Rigid Foam, 21 lb/cu. ft. Olin Matheson Chem. Co.	0	0	0	0.5	1	0	0.2	2.6		
3908 FR Rigid Polyurethane Olin Matheson Chem. Co.	-	-	-	-	5	0	0.6	4.5		
H3904F Rigid Polyurethane 5/8" thick Polytron Division Olin Matheson Chem. Co.	-	-	-	-	0	0	0.3	5.4		
Foam, DMS 1610, Type 2, Class FS10, Hastings Plastics	310	21	5.7	-	-	-	-	-		
Cush-N-Foam, UU 36 NYS FR Flexible Hudson	-	-	-	-	0	0	1.1	5.5		
Cush-N-Foam, UU 44FR Flexible, Hudson	-	-	-	-	0	0	.8	6.3		
PTR 023-12, Flexible Foam, Stauffer Chem. Co.	-	-	-	-	0	0	.8	5.8		
Rigid, Fire Resistant Polyurethane Hetrofoam 368/293 slab, 7/16", density 20 lbs/cu. ft. Durez Plastic Division Hooker Chemical Corp.	-	-	-	-	0	0	0.2	5.3		
Rigid Fire Resistant Polyurethane Hetrofoam 420/293 slab, 3/8", density 2 lbs/cu. ft. Durez Plastic Division Hooker Chemical Corp.	-	-	-	-	0	0	4.8	6.4		
Rigid Polyurethane Stifoam 4125 density 25 lbs/cu. ft. Olin Matheson Chem. Co.	0	0	0.1	1.1	4	0	0.1	4.3		
Rigid Urethane CPR 9006-4 density 4 lbs/cu. ft. CPR	2	0	0.1	4.7	0	0	1	4.8		
Rigid Polyurethane Hetrofoam 368/293, batch S-289-6 density 25 lbs/cu. ft. Durez Plastic Division Hooker Chem. Corp.	0	0	0	2.2	0	0	0.1	5.8		
Rigid Polyurethane 3/8" thick-closeout foam Nopco	0	0	0	0.7	27	0	0.2	4.3	Only two specimens tested	
Rigid Polyurethane CPR 737 3/8" thick closeout foam CPR	3	0	0	1	6	0	0.3	2.3		

FOAM

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	CCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				CCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
AMCI-4-0023 Foam, Flotation, Polyether-urethane; Associated Mfg. Co., Inc. Treated by Calif. Flameproofing Co.	9	0	0.6	-	-	-	-	-	Retreated with fire retardant; Did not immediately self-extinguish as first received. Additional treatment increased density.	
Califoam 202 FR Foam, Polyether Urethane; Califoam Corp. of America. Treated by Calif. Flameproofing Co.	1	0	0.6	-	-	-	-	-	Retreated with fire retardant; Did not immediately self-extinguish as first received. Additional treatment increased density.	
Polyether-Urethane Foam Califoam 202FR	0	0	2.7	-	-	-	-	-		
Polyether-Urethane Califoam 202FR - Aged 7 days @ 120°F.	0	0	2	-	-	-	-	-		
Polyether-Urethane Califoam 1.7 Califoam Corp. of America	0	0	1	4.3	-	-	-	-		
Polyether-Urethane Califoam 1.9 Califoam Corp. of America	0	0	1	4.7	-	-	-	-		
Polyether-Urethane Foam CPR 9700 - 1.4SE (1.4 lbs/cu. ft.) DMS 1648	0	0	3.5	7	-	-	-	-		
Polyether-Urethane Foam CPR 9700-1.8SE (1.8 lbs/cu. ft.) DMS 1648	0	0	3.3	9	-	-	-	-		
Polyether-Urethane Foam CPR 9700-1.8SE covered w/ current muslin AMS 3855 DMS 1648	0	0	.5	6	-	-	-	-		
Polyether-Urethane Foam CPR 9700-1.8SE covered w/Orcon Corp. AN-3 Metallized Acclar Film DMS 1648	35	0	4.5	7	-	-	-	-		
Polyurethane Foam (Polyether) CPR - 9700 1.8 S. E., 1.8# / cu. ft. seat back wrapped w/ LWS 2383 Beta Fiberglass cloth. DMS 1648 Owens Corning	0	(1) 0 (2) 0	0.8	(1) 2.8 (2) 1.6	-	-	-	-	(1) Foam (2) Beta fiberglass cloth	
9700 CPR 2.0 S. E. DMS 1648 CPR	1	0	1	4.1	0	0	3.8	6.0		
9700 CPR 1.4 S. E. DMS 1648 CPR	0	0	1	4.2	-	-	-	-		
Same as above Aged 7 days @ 160°F ; DMS 1648 CPR	2	0	0.8	4.7	-	-	-	-		
#1240 S. E. Polyester Urethane Foam DMS 1543 American Urethane	0	0	1	-	-	-	-	-		
#1240 S. E. Polyester Urethane Foam - Aged 7 days @ 120°F DMS 1543 American Urethane	0	0	2	-	-	-	-	-		
Flotation Cushion AMCI#33827 Molded Polyurethane Foam w/Styrofoam Beads from Polyether Urethane. DMS 1916 Associated Mfg. Co.	32	0	12*	-	-	-	-	-	*Entire specimen	
Flotation Cushion (Associated) Polystyrene Beads AMCI.PBFH-0023 S/E and S/E Urethane Foam #8450A (Furane) DMS 1916	44	0	2.4	9	-	-	-	-		
Seat Cushion of Polyurethane w/Styrofoam beads for TTA DMS 1916 Associated Mfg. Co.	32	0	12*	-	-	-	-	-	*Entire specimen	

FOAM

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	OCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				OCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
Cushion, Seat Back Protection (foam w/muslin covering). Front Side Back Side DMS 1648 Not S. E.	(1) (1)	0 0	12* 12*	- -	- -	- -	- -	- -	*Entire specimen (1) Engulfed in flames in 5 Sec. Drippings, Residual liquid. Due to heavy smoke, could not determine flame time or when specimen burned completely. Muslin, adhesive and foam burn- ed.	
Cushion Seat: UAL Ship 277, DC-8 Upholstery Fabric Muslin Only Foam Only Complete Assembly DMS 1648 Not S. E.	51 0 120(1) 0	0 0 0 0	7.5 10.5 12* 0	- - - -	- - - -	- - - -	- - - -	- - - -	(1) Specimen was completely a flame and smoke became so dense that it extinguished. *Entire specimen	
Vinyl, closed cell flexible foam, Egoolite AA DMS 1539 Uniroyal	0	0	0.5	3.5	0	0	2.9	4.2		
Ensolite AH PVC Foam Uniroyal	4	0	0.4	3.4	-	-	-	-		
Ensolite AH, crash pad. (Uniroyal; Jobber, Expanded Rubber & Plastics)	4	0	0.4	3.4	0	0	2.2	4.8		
Nopco 3042, Polyether Urethane Foam DMS 1648 Nopco Chemical Co.	2	0	0.6	5.2	0	0	1.2	7.6		
Same as above Aged 7 days @ 160°F DMS 1648 Nopco Chemical Co.	4	0	0.7	3.9	-	-	-	-		
Nopco #3042 Blue White Flexible Urethane Foam DMS 1648 Nopco Chemical Co.	0	0	.8	5.7	-	-	-	-		
Foam, Polyurethane, Flexible, Flame Retardant, Batch #603052; Hastings Plastics Inc.	2	0	.1	-	-	-	-	-	Three-part flexible foam	
Polyurethane (Purple colored) Fire Retardant per MIL-P-46111 Goodyear	-	-	-	-	0	0	7.4	7.4		
Ethafoam - 1.6#/cu. Ft. DPM 3098	65	0	9*	-	-	-	-	-	*Entire specimen	
Scott Industrial Beige Reticulated 10 PPI zapped FR 3/4" Wilshire Foam Products	-	-	-	-	0	0	4.5	9.6		
Scott Industrial Beige Reticulated 10 PPI (alkali treated) Wilshire Foam Products	-	-	-	-	26	0	8.1	10*	One specimen burned entirely	
Flexible Polyurethane CPR 9721-75 3/4" thick CPR	-	-	-	-	3 min.	0	11 (1)	12*	*Entire specimen (1) 2 out of 3 charred entire specimen.	
Rigid ABS/Foam Laminate; Nopco F-506, Class C, Color 5 foam (DPM 3435); and DMS 1670 ABS	(1)517	0	6*	-	-	-	-	-	*Entire specimen (1) Foam melted and ran off in a steady stream, and continued to burn for 2 Sec. after specimens were extinguish- ed.	
Rigid Polyurethane foam self extinguishing 20 lbs/cu. ft. Polymir Ind.	26	0	5.5	-	-	-	-	-		
Rigid Polyurethane ACB-6 Polymir Industries	-	-	-	-	0	0	3.4	6.8		
Nopco Com. rigid S. E. Poly- urethane sheet S. E. BX-295 density 27.84 lb/ cu. ft. Nopco Chemical Co.	0	0	0	0.6	-	-	-	-		
Foam, DMS 1610, Type 2 (Rigid), Class FS10 Nopco Chemical Co.	55	0	5*	-	-	-	-	-	*Entire specimen While specimen burned pieces of the material fell off and burned until consumed.	

CATEGORY 15

GENERAL MECHANICAL PARTS: RUB STRIPS, AND DECORATIVE EXTRUSIONS

TESTED AT 1450°F, USING PROPANE GAS.

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Plastic Extrusion MAT'L TYPE Thermoplastic BML
 IDENTIFICATION COLOR CODE, BAC NO. 1522-58 Cream Color MATERIAL 1
 MANUFACTURER PROPOSED USE Lavatory Seal

TEST METHODS AND REQUIREMENTS Test Method: D6-8099 Flame Resistance
 Requirement: BMS 6-8-9. Shall not exceed 4 in/min. when tested in the horizontal position.

DEVIATION FROM TEST METHOD
 Polyvinyl Chloride BMS 6-8-9, Grade 70, Form A.

CALC	R. Michalski	11-0	REVISED	DATE
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SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	X		85		1.5	1.5			
	X		12		1.0	1.0			
	X		6		1.0	1.0			
	X		2		1.0	1.0	96.7	6.20	

c/s
 6-7612-4-387
 D6-1084
 D6-6246TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Plastic Extrusion MAT'L TYPE Thermoplastic **RML**
 IDENTIFICATION COLOR CODE, BAC NO, 1522-90 Color: Turquoise MATERIAL ▲
 MANUFACTURER Bulkhead Seal

TEST METHODS AND REQUIREMENTS
 Test Method: D6-8099 Flame Resistance
 Requirement: Shall not exceed 4 in./min. when tested in the horizontal position.

DEVIATION FROM TEST METHOD
▲ BMS 6-8-9, Grade 80, Polyvinyl Chloride

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	X	2.3		1.12	1.12			
	X	7.9		1.0	1.0			
	X	3.6		1.0	1.0			
	X	3.0		1.12	1.12			
	X	1.7		1.0	1.0			
	X	2.1		1.25	1.25			

CALC	<u>B. Michalski</u>	<u>11-30-67</u>	REVISION	DATE
CHECK				
APPD				
APPD				

C/S
 6-7612-4-70
 D6-1084
 D6-6246TM
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Plastic Extrusion MAT'L TYPE Thermoplastic MML
 IDENTIFICATION COLOR CODE, BAC NO. BAC 1522-145 (Black) MATERIAL 1
 MANUFACTURER _____ PROPOSED USE Metretek Light Seal

TEST METHODS AND REQUIREMENTS
 Test Method: D6-8099 Flame Resistance.
 Requirement: Shall not exceed 4 in./min. when tested in the horizontal position.

DEVIATION FROM TEST METHOD

1 BMS 6-8-9, Form A, Grade 60, Polyvinyl Chloride.

CALC	S. Michalski 11-9-67	REVISED	DATE
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SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	X		49.7		1.75	1.75		3.19	

C/S
 6-7612-4-887
 D6-1084
 D6-6246TH
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Plastic Extrusion MAT'L TYPE Thermoplastic RML
 IDENTIFICATION COLOR CODE, BAC NO., BAC 1522-151 White MATERIAL D
 MANUFACTURER PROPOSED USE Galley Seal

TEST METHODS AND REQUIREMENTS
 Test Method: D6-8099 Flame Resistance
 Requirements: BMS 6-8-9. Shall not exceed 4 in/min. when tested in the horizontal position.

DEVIATION FROM TEST METHOD
 Polyvinyl Chloride BMS 6-8-9, Form A, Grade 60.

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	X		30		.875	.875			
	X		25		.875	.875			
	X		7.2		1.25	1.25			
	X		8.8		1.25	1.25			
	X		3.6		1.125	1.125			

CALC	S. Michalski	11-9-67	REVISED	DATE
CHECK				
APPD				
APPD				

C78
 6-7612-4-387
 D6-1084
 D6-6246TA
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Plastic Extrusion MAT'L TYPE Thermoplastic EML
 IDENTIFICATION COLOR CODE, BAC NO. BAC 1522-184 White MATERIAL ▷
 MANUFACTURER PROPOSED USE Window Reveal Seal

TEST METHODS AND REQUIREMENTS
 Test Method: D6-8099 Flame Resistance.
 Requirement: Shall not exceed 4 in/min. when tested in the horizontal position.

DEVIATION FROM TEST METHOD
 ▷ BMS 6-8-9. Polyvinyl Chloride.

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	X	2.6		1.0	1.0			
	X	1.1		.88	.88			
	X	1.7		.88	.88			
	X	0.9		1.0	1.0			
	X	1.6		1.37	1.37			
	X	2.0		1.0	1.0			

CALC	S. Michalski	11-9-67	USED	DATE
CHECK				
APPD				
APPD				

C/S
 6-7612-4-387
 D6-1084
 D6-6246TN
 PAGE

CATEGORY 16

THERMOPLASTICS: PRESSURE - FORMING SHEETS, AND EXTENSIONS
(CATEGORY NUMBER DELETED. REFER TO CATEGORY 17.)

CAT-16
B-300

CATEGORY 17

THERMOPLASTICS: MOLDING AND EXTRUDING GRADES, PRESSURE - FORMING
SHEET STOCK, DECORATIVE MATERIALS

TESTED AT 1450°F, USING PROPANE GAS.

CAT-17
B-301

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Plastic Extrusion MAT'L TYPE Thermoplastic EML

IDENTIFICATION COLOR CODE, BAC NO. BAC 1522-128 (Blue) MATERIAL Δ

MANUFACTURER PROPOSED USE Entry Mat Trim

TEST METHODS AND REQUIREMENTS Test Method: D6-8099 Flame Resistance Requirement: BMS 6-8-9, Shall not exceed 4 in./min. when tested in the horizontal position.

DEVIATION FROM TEST METHOD

Δ BMS 6-8-9, Form A, Grade 90. Polyvinyl Chloride.

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	X		0	.5	.5	.5			
	X		1.5	.6	.6	.6			
	X		1.0	.5	.5	.5			
	X		4.0	.5	.5	.5			
	X		1.0	.3	.3	.3			
	X		1.5	.3	.3	.3			

CALCS	Michalski	11-9-67	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
6-7612-4-387
D6-1084
D6-6246TM
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Plastic Extrusion MAT'L TYPE Thermoplastic BML

IDENTIFICATION COLOR CODE, BAC NO. BAC 1522-129 (Gray) MATERIAL 

MANUFACTURER PROPOSED USE Entry Mat Trim

TEST METHODS AND REQUIREMENTS

Test Method: D6-8099 Flame Resistance
 Requirement: BMS 6-8-9, Shall not exceed 4 in./min. when tested in the horizontal position.

DEVIATION FROM TEST METHOD

 Polyvinyl Chloride BMS 6-8-9, Form A, Grade 90

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	X		5.0	.875	.875	.875			
	X		2.4	.625	.625	.625			
	X		6.4	1.0	1.0	1.0			
	X		2.5	.75	.75	.75			
	X		2.7	1.0	1.0	1.0			
	X		5.2	.875	.875	.875			

CALC S.	Michalaski	11-9-67	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
 6-7612-4-387
 D6-1084
 D6-6246TH
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Plastic Extrusion MAT'L TYPE Thermoplastic EML
 IDENTIFICATION COLOR CODE, BAC NO. BAC 1522-101 Off White MATERIAL 1
 MANUFACTURER PROPOSED USE Closure Panel End Trim

TEST METHODS AND REQUIREMENTS
 Test Method: D6-8099 Flame Resistance
 Requirement: Shall not exceed 4 in/min. when tested in the horizontal position.

DEVIATION FROM TEST METHOD

1 BMS 6-8-9, Grade 60, Polyvinyl Chloride

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES		CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
				VERT.	HORIZ.				
	X	1.0	.88	.88	.88	.88			Moderate black smoke evolved.
	X	1.4	1.25	1.25	1.25	1.25			
	X	2.1	1.00	1.00	1.00	1.00			
	X	1.0	1.25	1.0	1.0	1.0			
	X	1.6	.88	.88	.75	.75			
	X	1.2	.75	.75	.75	.75			

CALC	S. Michalski	11-9-67	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
 6-7612-4-87
 D6-1084
 D6-6246TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Polysulfone Sheets MAT'L TYPE Thermoplastic MAT'L

IDENTIFICATION COLOR CODE, BAC NO. MATERIAL

MANUFACTURER Union Carbide PROPOSED USE Passenger Service Units

TEST METHODS AND REQUIREMENTS

Test Method: D6-8099 Flame Resistance
 Requirement: Shall extinguish (no time limit). Char length shall not exceed 4" in the horizontal and 8" in the vertical.

DEVIATION FROM TEST METHOD

- 1 0.042 thick specimens
- 2 0.062 thick specimens
- 3 0.124 thick specimens

SAMPLE NO.	MATERIAL POSITION	VERT.	HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
1	X			6.0		0.5	0			1. Horizontal: All thicknesses. Little black smoke and soot evolved.
	X			6.3		0.63	0			
	X			7.8		0.63	0			
2		X		22.3		1.75	0.13			2. Vertical: 1 and 2 thicknesses. Moderate black smoke and soot evolved. Melting and dripping. The drippings burned.
		X		18.4		1.75	0.25			
		X		53.6		2.38	0.63			
3	X			0		0.37	0			3. Vertical: 3 thickness. Little black smoke and soot. No dripping.
	X			10.7		1.0	0.37			
	X			1.9		0.63	0			
	X	X		0		0.50	0			
	X	X		0		0.63	0			
	X	X		2.1		0.5	0			
	X	X		2.2		0.38	0			
	X	X		2.2		0.5	0			

CALC	S. Michalski 11-9-67	DATE	
CHECK			
APPD			
APPD			

C/S
 6-7612-4-387
 D6-1084
 D6-6246TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

6860

BML

MAT'L TYPE See (1) to (9)

MATERIAL See (1) to (9)

1

See (1) to (9)

PROPOSED USE Decorative Interior

BMS 8-94

TEST METHODS AND REQUIREMENTS
 Type II 10 second self-extinguishing time, 4 inch maximum char length
 Type IV 10 second self-extinguishing time, 5 inch maximum char length

DEVIATION FROM TEST METHOD

Materials (1) through (4) are BMS 8-94, Type II. Materials (5) through (9) are BMS 8-94, Type IV

- (1) 10-60782-370 (3) 10-60782-378 (5) 10-60776-117 (7) 10-60776-144
- (2) 10-60782-373 (4) 10-60782-3012 (6) 10-60776-124 (8) 10-60776-146
- (9) 10-60776-147

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
Material									
	Range of three specimens								
(1)	X		0-1	0	2-2.5	2.0-2.5			Grey smoke evolved.
(2)	X		1-2	10-12	2-2.5	.7-2.0			Grey smoke evolved.
(3)	X		0	0	1.0	.25			Heavy white smoke evolved.
(4)	X		0	0	3.0	2.75			Heavy black smoke evolved.
(5)	X		1-2	0	3.2-3.5	3.2-3.5			White smoke evolved.
(6)	X		1-2	0	3.5	3.5			Heavy white smoke.
(7)	X		0-1	0	3.5	3.5			Heavy black smoke.
(8)	X		0-1	0	3-3.5	3-3.5			Heavy grey smoke.
(9)	X		3-4	0	2.5-3	1.5-2			Heavy white smoke.

CALC		REVISED	DATE
CHECK			
APPD			
APPD			

C/S
 6-7612-4-356
 D6-1084
 D6-6246TH
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Handle-Escape Hatch Lift 1 MAT'L TYPE Thermoplastic MML
 IDENTIFICATION COLOR CODE, BAC NO. Green Color 6700 MATERIAL Boltaron
 MANUFACTURER Amci, Monrovia, California PROPOSED USE

TEST METHODS AND REQUIREMENTS D6-8099 Flame Resistance. NOTE: Approximate thickness of specimen tested: 0.070-0.081.
 Requirement: Shall not exceed 4 in/min. when tested in the horizontal position.

DEVIATION FROM TEST METHOD

Assembly 65-3729-5A.

CALC	S. Michalski	11-0-	REVISED	DATE
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APPD				
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SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
	X		0		.88	.63			
	X		3.4		.88	.50			
	X		3.5		.50	.50			
	X		4.0		.50	.50			
		X	1.4		1.12	.50			
		X	6.8		1.12	.50			
		X	0						

C/S
 6-7612-4-387
 D6-1084
 D6-6246TH
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Sweeper Section #65-49670 MAT'L TYPE Thermoplastic MATERIAL Plasticsol

IDENTIFICATION COLOR CODE, BAC NO. Light Brown PROPOSED USE Entry and Service Door Sweeper Seals

MANUFACTURER

TEST METHODS AND REQUIREMENTS

Test Method: D6-8099 Flame Resistance

Requirement: Shall not exceed 4 in/min. when tested in the horizontal position.

DEVIATION FROM TEST METHOD

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	X						534.0	1.12	
	X						171.0	3.50	

CALC	D. Michalski	11-9-67	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
6-7612-4-87
D6-1084
D6-6246TH
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Kydex (sheet 1 of 2)

MAT'L TYPE Thermoplastic ML

IDENTIFICATION COLOR CODE, BAC NO.

MATERIAL Acrylic - PVC

MANUFACTURER Rohm & Haas

PROPOSED USE Escape Slide Shroud

TEST METHODS AND REQUIREMENTS

Test Method: D6-8099 Flame Resistance
 Requirement: Shall ~~extinguish~~ (no time limit). The char length shall not exceed 4 inches in the horizontal and 8 inches in the vertical

DEVIATION FROM TEST METHOD

CALC		REVISED	DATE
CHECK	S. Michalski	12/26/67	
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SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
0.060 thick		x	0		.63-.75	.13-.18			Slight amount of grey smoke evolved
	x		0		2.0-2.5	.18-.37			
0.080 thick		x	0		.56-.63	0.06			
	x		0		2.0-2.25	.13-.18			
0.125 thick		x	0		.5-.56	.06			
	x		0		1.75-1.87	.06			

c/s6-7612-4-528
 D6-1084
 D6-6246TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

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IDENTIFICATION Kydex (sheet 2 of 2)

MAT'L TYPE

MATERIAL

IDENTIFICATION COLOR CODE, BAC NO.

PROPOSED USE

MANUFACTURER

TEST METHODS AND REQUIREMENTS

DEVIATION FROM TEST METHOD

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES		BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.			INCHES	INCHES			
0.187 thick		x	0		.5-	0			
	x		0		.62 1.25 1.50	0			

CALC		REVISED	DATE
CHECK	S. Michalski	12/26/67	
APPD			
APPD			

4-528
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Hatrack Bullnose 65-24294-951V MAT'L TYPE Thermoplastic RML
 IDENTIFICATION COLOR CODE, BAC NO. MATERIAL See 1
 MANUFACTURER PROPOSED USE

TEST METHODS AND REQUIREMENTS
 Test Method: D6-8099 Flame Resistance. Note: The bullnose assembly was tested for flame resistance. See 1
 Requirement: Shall extinguish (no time limit). The char length shall not exceed 4 inches in the horizontal and 8 inches in the vertical.

DEVIATION FROM TEST METHOD
1 The bullnose assembly that was tested consisted of an outer flexible ABS covering (Abskyn F, BAC 387 Shell Pearl), foam and a metal back.

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
<u>2</u>	X		0		.5	.5			<u>2</u> Ignition flame was applied to various areas of the ABS side of bullnose.
	X		0		.5	.5			
	X		1.0		1.0	1.0			
	X		1.0		1.25	1.25			<u>3</u> The bullnose was cut transversely. The ignition flame was applied to the cut end.
	X		1.0		.5	.25			
	X		1.0		.5	.37			
	X		0		.5	.37			

CALC	S. Michalski	1-29-68	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
 6-7612-4-1080
 D6-1084
 D6-6246TN
 PAGE

2

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Semi-Rigid Vinyl-Unsupported MAT'L TYPE Thermoplastic EML 7968

IDENTIFICATION COLOR CODE, BAC NO. 10-60776-181 MATERIAL Vinyl

MANUFACTURER Polyplastex PROPOSED USE Decorative Interior

TEST METHODS AND REQUIREMENTS Test Method: D6-8099 Flame Resistance Requirement: D6-9069. Shall extinguish in 15 seconds or less when tested horizontally and vertically

DEVIATION FROM TEST METHOD



SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	X		2.0	.5	0				
	X		2.1	.5	0				
	X		2.0	.5	0				
		X	6.0	7.0	2.0				
		X	3.0	5.3	2.0				
		X	10.0	6.0	3.0				


CALC	S. Michalski	2-16-68	REVISED	DATE
CHECK				
APPD				
APPD				

4/323
D6-1084
D6-22467N
PAGE

71


TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Pitot Static Hose  MAT'L TYPE Thermoplastic  RML

IDENTIFICATION COLOR CODE, BAC NO. MATERIAL 

MANUFACTURER Zep Aero #ZH 598-20 PROPOSED USE

TEST METHODS AND REQUIREMENTS Test Method: D6-8099 Flame Resistance
Requirement: Shall not exceed 4 in./min. when tested in the horizontal position.

DEVIATION FROM TEST METHOD  Saran covered Tygon Tubing 5/8 O.D. x 3/8 I.D.

CALC	S. Michalski	1-29-68	REVISED	DATE
CHECK				
APPD				
APPD				

C/S	6-7612-4	1080
	D6-6246TN	
PAGE		

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
	X		10.5	.63	.5				
	X		6.5	.63	.5				
	X		10.8	.63	.38				
		X	3.8	1.0	.38				
		X	4.9	.87	.38				
		X	2.8	.75	.50				

72

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Unsupported Semi-Rigid Vinyl MAT'L TYPE Thermoplastic EML

IDENTIFICATION COLOR CODE, BAC NO. 10-60776-145 MATERIAL Vinyl

MANUFACTURER Polyplastex PROPOSED USE Decorative Interior

TEST METHODS AND REQUIREMENTS D6-8099 Flame Resistance
Requirement: Shall extinguish (no time limit). Char length shall not exceed 8 inches when tested in the vertical and 4 inches when tested in the horizontal.

DEVIATION FROM TEST METHOD

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
	X		9		1.25	1.25			Moderate smoke evolved.
	X		7		1.37	1.37			
	X		6		1.25	1.25			
		X	2		3.375	3.375			
		X	1		3.25	3.25			
		X	1		3.0	3.0			
		X	0		2.5	2.5			

CALC	S. Michalski	1-20-50	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
 6-7612-4-1080
 D6-1084
 D6-6246TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE			
IDENTIFICATION Circle Grid #4202	MAT'L TYPE Thermoplastic	EML	
IDENTIFICATION COLOR CODE, BAC NO. White		MATERIAL Vinyl	
MANUFACTURER J. A. Wilson Company, Erie, Pennsylvania. PROPOSED USE Class Divider - See Through			
TEST METHODS AND REQUIREMENTS Test Method: D6-8099 Flame Resistance Requirement: Shall extinguish (no time limit). Char length shall not exceed 8 inches when tested in the vertical and 4 inches in the horizontal.			
DEVIATION FROM TEST METHOD			
CALC	S. Michalski	1-29-68	REVISED
CHECK			DATE
APPD			
APPD			
	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.
SAMPLE NO.	VERT. HORIZ.	BURNED LENGTH INCHES	CHAR LENGTH INCHES
		BURN TIME SECS.	BURN RATE IN/MIN
			COMMENTS
	X	0	
	X	0	
	X	0	
	X	0	
		1	
	X	0	
	X	0	
			Moderate black smoke evolved.

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE



IDENTIFICATION Exhaust Grill 69-43230-1E MAT'L TYPE Thermoplastic EML


IDENTIFICATION COLOR CODE, BAC NO. Tan MATERIAL 

MANUFACTURER PROPOSED USE

TEST METHODS AND REQUIREMENTS Test Method: D6-8099 Flame Resistance Requirement: Shall not exceed 4 inches/min. when tested in the horizontal position.

DEVIATION FROM TEST METHOD

 Believed to be cellulose acetate butyrate. The grill was painted.
 Six inch length of specimen was used to determine the burn rate.

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
		X	150.0		1.00	.38			1. Horizontal: Little smoke. Moderate flame
		X	60.0		.75	.25			
		X	54.0		1.25	.75	61	5.9	
		X							2. Vertical Little smoke. Very large flame. Material melted and dripped The drippings burned.

CALC		REVISED	DATE
CHECK	S. Michalski		12/26/67
APPD			
APPD			

c/s 6-7012-4-528
 D6-1084
 D6-62501N
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE									
IDENTIFICATION		10-60128-293		MATERIAL TYPE		Thermoplastic		EML 6330	
IDENTIFICATION COLOR CODE, BAC NO. 510A		Blue		MATERIAL/Insupported		Semi-Rigid Vinyl			
MANUFACTURER		Duracote Corporation		PROPOSED USE		Decorative Interior			
TEST METHODS AND D6-8099 Test Methods. Shall meet the 15 second self-extinguishing requirement REQUIREMENTS of D6-9069.									
DEVIATION FROM TEST METHOD									
SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
1	X		1.9	0	0.75	0.75	0.75		1. Horizontal
2	X		8.7	0	1.60	1.10	1.10		Moderate smoke and ignitable gases evolved. Burned length due to ignition.
3	X		12.4	0	1.45	1.15	1.15		
4	X	X	2.7	0	5.0	3.9	3.9		2. Vertical
5	X	X	6.5	0	4.5	3.1	3.1		Same as under 1. except large amount of smoke evolved.
6	X	X	3.1	0	3.9	2.0	2.0		

CATC	6-8-67	REVISED	DATE
CHECK			
APPD			
APPD			

C/S
A3-798
D6-1084
D6-6246TH
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Seat Row Number Tag 65-10944-6 MAT'L TYPE Thermoplastic EML

IDENTIFICATION COLOR CODE, BAC NO. MATERIAL 1

MANUFACTURER PROPOSED USE

TEST METHODS AND REQUIREMENTS Test Method: D6-8099 Flame Resistance. Note: Tag assembly was tested. Requirement: Shall not exceed 4 in/min. when tested in the horizontal position.

DEVIATION FROM TEST METHOD

1 Believed to be cellulose acetate.

2 Burn Rate: 272 seconds per 3 inch length of tag.

SAMPLE NO.	MATERIAL POSITION: VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS

CALC	S. Michalski	11-30-67	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
6-7612-4-470
D6-1084
D6-6246TH
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE										
IDENTIFICATION		Passenger Seat Becks and Sides			MAT'L TYPE		Thermoplastic			EML
IDENTIFICATION COLOR CODE, BAC NO.		MATERIAL			1					
MANUFACTURER		Uniroyal Company			PROPOSED USE					
TEST METHODS AND REQUIREMENTS		Test Method: D6-8099 Flame Resistance. Requirement: Shall not exceed 4 in/min. when tested in the horizontal position.								
DEVIATION FROM TEST METHOD 1 Royale 55 (ABS). 0.047-0.049 thick.										
SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS		
								VERT.	HORIZ.	
	X	0		1.12	.75			1. Horizontal: Little to moderate black smoke.		
	X	0		1.0	.63					
	X	1.5		1.0	.63					
	X	1.2		.87	.63					
	X	3.3	4	1.5	.63			2. Vertical: Moderate to large black and white smoke.		
	X	1.2	3	1.37	.63					
	X	29.6	12	1.75	1.12					
	X	1.0	3	1.25	.63					
	X	1.0	9	1.0	.63					

CALC	S. Michalski	11-30-69	REVISED	DATE
CHECK				
APPD				
APPD				

C/8
 6-7612-4-470
 06-1984
 06-62467N
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

BML

MAT'L TYPE

3

2

1

MATERIAL

IDENTIFICATION COLOR CODE, BAC NO.

PROPOSED USE

MANUFACTURER

TEST METHODS AND REQUIREMENTS D6-8099 Flame Resistance. Shall extinguish. No time limit. The average char length shall not exceed 8 inches.

DEVIATION FROM TEST METHOD


1 2 3
 Royalite 50 ABS plastic. 0.043" thick.
 Fiberglass reinforced ABS plastic (1 ply of 181 glass fabric over 0.040 Royalite 50).
 Fiberglass reinforced ABS plastic (1 ply of 181 glass fabric over 0.068 Royalite 50).

SAMPLE NO.	MATERIAL POSITION:		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1	X		4-9			.75- 1.0			The char length on 2 and 3 is zero. The char lengths shown for 2 and 3 are the distances the plastic was charred by the flame.
2	X		4-21			1-3.25			
2		X	5-7			0.75			
3		X	2-4			.25- .5			
3		X	0-2			.125			

CALC	S. MICHALSKI	2/17/67	REVISED	DATE	C/S A3-598 D6-1084 D6-6246TM PAGE
CHECK					
APPD					
APPD					

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE


IDENTIFICATION Kel-F  MAT'L TYPE Thermoplastic  ML

IDENTIFICATION COLOR CODE, BAC NO. MATERIAL 

MANUFACTURER PROPOSED USE Disconnectable Wire Splice

TEST METHODS AND Test Method: Federal Test Method Standard 406, Method 4011, "Arc Resistance"

REQUIREMENTS Requirement: D6-19068. Arc resistance time shall be 125 seconds or more.

DEVIATION FROM TEST METHOD  Polychlorotrifluoroethylene

CALC	Michalski	1-20-68	REVISED	DATE
CHECK				
APPD				
APPD				

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
								Ten specimens tested. No tracking occurred. The arc melted a path between the electrodes between 71 and 122 seconds. Intermittant flashings noted between 121 and 128 seconds.

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

MML

MAT'L TYPE Themoplastic



Kel-F



MATERIAL

PROPOSED USE

TEST METHODS AND Test Method: Federal Test Method Standard 406, Method 2023
 REQUIREMENTS (Heater Coil and Spark Plug Test Method)

Requirement: D6-19868. Shall extinguish in 30 seconds or less.

DEVIATION FROM TEST METHOD

Polychlorotrifluoroethylene

42 amperes supplied to heater coil. Coil was hot at start of test. Two 0.5"x0.25"x5" long specimens were used in place of 0.5 x 0.5 x 5 specimens.

SAMPLE NO.	MATERIAL POSITION VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED CHAR LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS

No burping occurred. Each of five specimens melted down to the base of the apparatus.

CALC	Michalski	1-10-68	REVISED	DATE
CHECK				
APPD				
APPD				

D6-6246T
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Kel-F △ MAT'L TYPE Thermoplastic BML

IDENTIFICATION COLOR CODE, BAC NO. △ MATERIAL △

MANUFACTURER DISCONNECTABLE WIRE SPLICE PROPOSED USE DISCONNECTABLE WIRE SPLICE

TEST METHODS AND REQUIREMENTS Federal Test Method Standard 406, Method 2021.
Note: 0.040" thick specimen was used.
Requirement: D6-19868. Shall extinguish in 2 seconds or less when tested in the horizontal position and 15 seconds or less when tested in the vertical position.

DEVIATION FROM TEST METHOD

△ Polychlorotrifluoroethylene

CALC	<u>Michalski</u>	<u>1-10-68</u>	REVISED	DATE
CHECK				
APPD				
APPD				

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	X		0	.75	.75				Melting and some dripping.
	X		0	1.5	1.0				Little smoke evolved.

D6-6246TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Nylon 1 MAT'L TYPE Thermoplastic 2 EML

IDENTIFICATION COLOR CODE, BAC NO. MATERIAL 1

MANUFACTURER DuPont PROPOSED USE Disconnectable Wire Splice

TEST METHODS AND REQUIREMENTS Test Method: Federal Test Method Standard 406, Method 4011, "Arc Resistance"
Requirement: D6-19868. Arc resistance time shall be 125 seconds or more.

DEVIATION FROM TEST METHOD 1
Zytel Nylon Type FE2578, Color NC-10
2 Specimen Dimensions: 0.125" thick x 0.5" wide x 5" long.

CALC	Michalski	1-10-68	REVISED	DATE
CHECK			1	
APPD				
APPD				

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
									Specimen #1: Melted and conducted after 70 seconds.
									Specimen #2: Melted after 60 seconds. Conducted after 80 seconds.
									Specimen #3: Melted after 60 seconds. Conducted after 68 seconds.

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Nylon  MAT'L TYPE Thermoplastic  MML

IDENTIFICATION COLOR CODE, BAC NO. MATERIAL

MANUFACTURER DuPont PROPOSED USE Disconnectable Wire Splice

TEST METHODS AND Test Method: Federal Test Method Standard 406, Method 2023 (Heater Coil and Spark Plug Test Method)

Note: 42 amperes supplied to heater coil.
Requirement: D6-19868. Shall extinguish in 30 seconds or less.

DEVIATION FROM TEST METHOD

 Zytel Nylon Type FE2578, Color NC-10

Ignition

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
2			24				216		
3			86				279		

CALC	Michalski	1-10-68	REVISED	DATE
CHECK				
APPD				
APPD				

D6-6246TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Nylon  MAT'L TYPE Thermoplastic  BML

IDENTIFICATION COLOR CODE, BAC NO.

MATERIAL 

MANUFACTURER Du Pont Company





PROPOSED USE Disconnectable Wire Splice

TEST METHODS AND REQUIREMENTS

Federal Test Method Standard 406, Method 2021
 Requirement: D6-19868. Shall extinguish in 2 seconds or less when tested in the horizontal position and 15 seconds or less when tested in the vertical position.

DEVIATION FROM TEST METHOD


 Zytel Nylon Type FE2578, Color NC-10

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
 2	X						320	0.56	 0.125" thick specimen
 3	X						598	0.302	 0.25" thick specimen Little smoke. Melted and dripped. drippings burned

CALC	Michalski	1-18-68	REVISED	DATE
CHECK				
APPD				
APPD				


D6-6246TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Seat Track Cover BML
 MAT'L TYPE Thermoplastic
 IDENTIFICATION COLOR CODE, BAC NO. 1522-180-555 MATERIAL, Polyurethane 
 MANUFACTURER Davidson Products Co. - Extruder PROPOSED USE

TEST METHODS AND REQUIREMENTS D6-8099 Flame Resistance
 FAR 25, Section 25.853 (b). Shall not exceed 4 in/min. when tested in the horizontal position.

DEVIATION FROM TEST METHOD

 B.F. Goodrich Compound Estane #58411. Durometer 60-70 Shore "D"

CALC		REVISED	DATE
CHECK	S. Michalski	3-5-68	
APPD			
APPD			

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CLEAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	x	9.7	10	1.0	.5			Little to moderate smoke evolved.
	x	4.2	9	1.0	.37			
	x	2.0	8	1.0	.5			
	x	3.4	10	2.0	.5			
	x	15.0	4	2.0	.5			
	x	3.0	17	1.75	.25			

6-7612-4
 1365
 D6-1084
 D6-6246TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

ML

MAT'L TYPE Thermoplastic

IDENTIFICATION Plastic Extrusion

MATERIAL

IDENTIFICATION COLOR CODE, BAC NO.

PROPOSED USE Cove End Trim

MANUFACTURER

TEST METHODS AND REQUIREMENTS Test Method: D6-8099 Flame Resistance

Requirement: Shall not exceed 4 in./min. when tested in the horizontal position.

DEVIATION FROM TEST METHOD

- 1 BAC 1522-101-712 painted per D6-5000, F14.66-206
- 2 BMS 6-8-9, Grade 60, Polyvinyl Chloride

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	X					479	1.25	Large amount of black smoke evolved. Moderate flame. Two chunks fell off and continued to burn.
	X					532	1.13	

CALC	S. Michalski	11-30-67	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
6-7612-4-470
D6-1084
D6-6246TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Plastic Extrusion MAT'L TYPE Thermoplastic EML
 IDENTIFICATION COLOR CODE, SAC NO. 1522-81 Color 746 White MATERIAL
 MANUFACTURER PROPOSED USE Assist Handle Grommets

TEST METHODS AND REQUIREMENTS Test Method: D6-8099 Flame Resistance
 Requirement: Shall not exceed 4 in/min. when tested in the horizontal position.

DEVIATION FROM TEST METHOD BMS 6-8-9, Grade 60, Polyvinyl Chloride


CALC	S. Michalski 11-19-67	DATE
CHECK		
APPD		
APPD		

SAMPLE NO.	MATERIAL POSITION		EATING TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
	X		1.0		.87	.63			Little to moderate black and white smoke. Ignitable fumes evolved.
	X		1.0		1.0	.63			
	X		1.1		1.0	.63			
X			1.1		1.0	.187			
X			1.0		.75	.25			
X			1.0		1.0	.37			

C/S
 6-7612-4-70
 D6-1084
 D6-6246TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Plastic Extrusion MAT'L TYPE Thermoplastic EML

IDENTIFICATION COLOR CODE, BAC NO. BAC 1522-147 (Dark Blue) MATERIAL 

MANUFACTURER PROPOSED USE Seat Track Cover

TEST METHODS AND REQUIREMENTS Test Method: D6-8099 Flame Resistance Requirement: Shall not exceed 4 in/min. when tested in the horizontal position.

DEVIATION FROM TEST METHOD  Rigid Polyvinyl Chloride. 65-75 Shore D Durometer.

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER FLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	X	0		.5	.5			
	X	0		.5	.5			
	X	0		.5	.5			
	X	0		.88	.88			
	X	1.0		1.3	1.3			
	X	0		.75	.75			

CALC	S. Michalski	11-9-67	DATE
CHECK			
APPD			
APPD			

C/S
6-7612-4-87
D6-1084
D6-6246TN
PAGE 21

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Plastic Extrusion MAT'L TYPE Thermoplastic EML
 IDENTIFICATION COLOR CODE, BAC NO. 1522-139-712 White MATERIAL △
 MANUFACTURER Closure Panel Trim PROPOSED USE

TEST METHODS AND REQUIREMENTS
 Test Method: D6-8099 Flame Resistance
 Requirement: Shall not exceed 4 in/min. when tested in the horizontal position.

DEVIATION FROM TEST METHOD
△ BMS 6-8-9, Grade 60. Polyvinyl Chloride.

CALC	Michalek	11-9-67	REVISED	DATE
CHECK				
APPD				
APPD				

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	X		71		1.0	1.0			1. Horizontal Material falls off and burns. Moderate black smoke evolved.
	X		130		2.5	2.5			
	X		123		2.0	2.0			2. Vertical: Material does not fall off. Moderate black smoke evolved.
	X	X	5.0	.88	.88	.88			
	X	X	46.7	4.5	4.5	4.5			
	X	X	45.1	6.5	6.5	6.5			
	X	X	2.6	1.5	1.5	1.5			

C/S
 6-7612-4-87
 D6-1084
 D6-6246TH
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Plastic Extrusion MAT'L TYPE Thermoplastic EML

IDENTIFICATION COLOR CODE, BAC NO. BAC 1522-136 MATERIAL 1

MANUFACTURER PROPOSED USE Curve Ceiling Trim

TEST METHODS AND REQUIREMENTS Test Method: D6-8099 Flame Resistance. Note: Screen used to hold specimen. Requirement: Shall not exceed 4 in./min. when tested in the horizontal position.

DEVIATION FROM TEST METHOD

△ RMS 6-8-9, Grade 60, Polyvinyl Chloride.

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	X	36.8		.63	.63	628	0.95	1. Horizontal Large volume of black smoke evolved. Moderate size flame. Screen used to hold specimen. Material fell off and continued to burn.
	X					465	1.29	
	X					90	6.65	2. Vertical: Screen was not used. Material fell off and continued to burn.

CALC	S. Michalski	11.0	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
6-7612-4-387
D6-1084
D6-6246TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Decorative Vinyl #69-17999-120 MAT'L TYPE Thermoplastic EML
 IDENTIFICATION COLOR CODE, BAC NO. BAC 9106T MATERIAL Rigid Vinyl Laminate
 MANUFACTURER PROPOSED USE Decorative Facing

TEST METHODS AND REQUIREMENTS Test Method: D6-8099 Flame Resistance
 Requirement: Shall extinguish (no time limit). Char length shall not exceed 4 inches in the horizontal and 8 inches in the vertical.

DEVIATION FROM TEST METHOD

CALC	<u>Michalski</u>	<u>11-9-67</u>	REVISED	DATE
CHECK				
APPD				
APPD				

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER CLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	X	1		1.0	1.0			
	X	0		1.3	1.3			
	X	0		1.3	1.3			
	X	1.9		3.0	2.75			
	X	1.0		3.25	2.75			
	X	0		2.37	2.0			

C/S
 6-7612-4-187
 D6-1084
 D6-6246TN
 PAGE

74

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Decorative Sandwich Laminate MAT'L TYPE Thermoplastic EML

IDENTIFICATION COLOR CODE, BAC NO. 10-60782-381 MATERIAL Vinyl

MANUFACTURER Polyplastex PROPOSED USE Decorative Interior

TEST METHODS AND REQUIREMENTS
 Test Method: D6-8099 Flame Resistance
 Requirement: Shall extinguish (no time limit)... Char length shall not exceed 8 inches in the vertical and 4 inches in the horizontal.

DEVIATION FROM TEST METHOD

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
	X		1.0		1.0	.75			Moderate black smoke evolved.
	X		8.0		1.25	.87			
	X		0		1.25	1.0			
	X		10		3.0	2.0			
	X		25		5.0	3.5			
	X		32		3.75	2.75			
	X		16		3.0	1.75			

CALC	G. Michalski	1-29-68	REVISED	DATE
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C/S
 6-7612-4-
 D6-1084
 D6-6246TN
 PAGE

1080

73

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Decorative Sandwich Laminate MAT'L TYPE Thermoplastic EML
 IDENTIFICATION COLOR CODE, BAC NO. 10-60782-375 MATERIAL Vinyl
 MANUFACTURER Polyplastex PROPOSED USE Decorative Interior

TEST METHODS AND REQUIREMENTS
 Test Method: D6-8099 Flame Resistance

Requirement: Shall extinguish (no time limit). Char length shall not exceed 8 inches when tested in the vertical and 4 inches in the horizontal.

DEVIATION FROM TEST METHOD

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SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES		CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.			INCHES	INCHES				
	X		2.0		.87		.5			Moderate black smoke evolved.
	X		2.4		1.0		.75			
	X		1.5		1.0		.50			
		X	5.6		2.0		1.0			
		X	13.0		1.75		2.25			
		X	14.0		2.25		1.75			

C/S
 6-7612-4-1080
 D6-1084
 D6-6246TN
 PAGE

58

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Rigid Vinyl Laminate, Perforated **MAT'L TYPE** Thermoplastic **RML 7599**

IDENTIFICATION COLOR CODE, BAC NO. 10-60782-3012 **MATERIAL** Tedlar/Vinyl

MANUFACTURER Seilon/Boeing **PROPOSED USE** Decorative Interior

TEST METHODS AND REQUIREMENTS
 Test Method: D6-8099 Flame Resistance.
 Requirement: D6-9069 Shall extinguish in 15 seconds or less when tested horizontally and vertically.

DEVIATION FROM TEST METHOD

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1	X		0	0	4.50	4.00			Moderate smoke evolved.
2	X		0	0	4.00	3.00			
3	X		0	0	3.00	2.50			
1		X	0	0	2.00	1.50			
2		X	0	0	1.75	1.25			
3		X	0	0	1.75	1.00			

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C/S
 6-7612-4-
 06-1084
 06-6246TIN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE									
IDENTIFICATION		Semi-Rigid Vinyl, Unsupported			MAT'L TYPE		Thermoplastic		EML 7599
IDENTIFICATION COLOR CODE, BAC NO.		10-60776r172			MATERIAL		Tedlar-Vinyl		
MANUFACTURER		Polyplastics			PROPOSED USE		Decorative Interior		
TEST METHODS AND REQUIREMENTS		Test Method: D6-8099 Flame Resistance. Requirement: D6-9069 Shall extinguish in 15 seconds or less when tested in the horizontal or vertical position.							
DEVIATION FROM TEST METHOD									
SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1		X	4	0	1.0	0.75			Moderate smoke evolved.
2		X	6	0	1.0	0.75			
3		X	5	0	1.0	0.75			
1	X		0	0	4.0	4.0			
2	X		0	0	3.5	3.5			
3	X		0	0	4.25	4.25			

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C/S
 6-7612-4-1047
 D6-1084
 D6-6246TN
 PAGE

56

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Unsupported Vinyl Laminate MAT'L TYPE Thermoplastic EML 7599
 IDENTIFICATION COLOR CODE, BAC NO. 10-60776-123 MATERIAL Vinyl
 MANUFACTURER Polyplastex PROPOSED USE Decorative Interior

TEST METHODS AND REQUIREMENTS
 Test Method: D6-8099 Flame Resistance.
 Requirement: D6-9069, Shall extinguish in 15 seconds or less when tested horizontally and vertically.

DEVIATION FROM TEST METHOD

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1	X		0	0	1.25	0			Little smoke evolved.
2	X		0	0	1.00	0			
3	X		0	0	1.00	0			
1		X	0	0	0.75	0			
2		X	0	0	1.00	0			
3		X	0	0	1.00	0			

CALC	S. Michalski	1/12	REVISED	DATE
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C/S
 6-7612-4-1047
 D6-1084
 D6-6246TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Vinyl Aluminum Laminate MAT'L TYPE Thermoplastic EML 7599
 IDENTIFICATION COLOR CODE, BAC NO. 10-60776-140T MATERIAL Tedlar/Vinyl
 MANUFACTURER Bosang PROPOSED USE Decorative Interior

TEST METHODS AND REQUIREMENTS
 Test Method: D6-8099 Flame Resistance.
 Requirement: D6-9069 Shall extinguish in 15 seconds or less when tested vertically and horizontally.

DEVIATION FROM TEST METHOD

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SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1	X		0	0	2.00	0			Little smoke evolved.
2	X		0	0	1.50	0			
3	X		0	0	1.50	0			
1		X	0	0	1.00	0			
2		X	0	0	0.75	0			
3		X	0	0	0.75	0			

C/S
 6-7612-4 1047
 06-1084
 06-6246TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION: Decorative Sandwich Laminate, Perforated MAT'L TYPE Thermoplastic EML 7599

IDENTIFICATION COLOR CODE, BAC NO. 10-60782-3009 MATERIAL, Tedlar/Vinyl

MANUFACTURER Polyplastex/Boeing PROPOSED USE Decorative Interior

TEST METHODS AND REQUIREMENTS
 Test Method: D6-8099 Flame Resistance.
 Requirement: D6-9069. Shall extinguish in 15 seconds or less when tested horizontally and vertically.

DEVIATION FROM TEST METHOD

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1	X				10		102	5.88	Heavy smoke, no dripping, no melting and strong odor.
2	X				10		92	6.53	
3	X				10		96	6.25	
1		X	3	0	1.50	0.75			
2		X	2	0	1.25	0.75			
3		X	4	0	2.00	1.00			

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C/S
 6-7612-4 1047
 06-1084
 06-6246TT
 PAGE

47

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE									
IDENTIFICATION		Decorative Sandwich Laminate			MAT'L TYPE		Thermoplastic		MML 7599
IDENTIFICATION COLOR CODE, BAC NO.		10-60782-3008			MATERIAL		Tedlar/Vinyl		
MANUFACTURER		Polyplastic			PROPOSED USE		Decorative Interior		
TEST METHODS AND REQUIREMENTS		Test Method: D6-8099 Flame Resistance. Requirement: D6-9069. Shall extinguish in 15 seconds or less when tested horizontally and vertically.							
DEVIATION FROM TEST METHOD									
SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1	X				10		102	5.88	Large amount of smoke evolved.
2	X		5	0	7	4.25			
3	X		1	0	3.75	1.50			
1		X	2	0	1.75	0.75			
2		X	1	0	1.25	0.50			
3		X	2	0	1.25	0.50			

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C/S
 6-7672-11-1047
 D6-1084
 D6-624671
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Decorative Sandwich Laminata MAT'L TYPE Thermoplastic RML 7599
 IDENTIFICATION COLOR CODE, BAC NO., 10-60782-3006 MATERIAL Tedlar/Vinyl
 MANUFACTURER Polyplastex PROPOSED USE Decorative Interior
 TEST METHODS AND REQUIREMENTS D6-8099 Flame Resistance
D6-9069 Shall extinguish in 15 seconds or less when tested horizontally and vertically.

DEVIATION FROM TEST METHOD

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
2	X		5	0	3.00	1.50			
3	X		3	0	2.25	1.50			
1		X	0	0	1.25	0.75			
2		X	0	0	1.00	0.50			
3		X	0	0	1.25	0.75			

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C/S
 6-7612-4-1047
 D6-1084
 D6-6246TN
 PAGE

44

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE										
IDENTIFICATION		Decorative Sandwich Laminate		MAT'L TYPE		Thermoplastic		EML 7599		
IDENTIFICATION COLOR CODE, EAC NO.		10-60782-373		MATERIAL		Vinyl				
MANUFACTURER		Polylux/Boeing		PROPOSED USE		Decorative Interior				
TEST METHODS AND REQUIREMENTS		Test Method: D6-8099 Flame Resistance. Requirement: D6-9069 shall extinguish in 15 seconds or less when tested horizontally and vertically.								
DEVIATION FROM TEST METHOD										
SAMPLE NO.	MATERIAL POSITION	VERT.	HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
1	X			25	0	3.50	1.25			Large amount of smoke evolved.
2	X			24	0	3.00	1.25			
3	X			37	0	3.50	2.00			
1			X	0	0	1.50	0.50			
2			X	0	0	1.50	0.50			
3			X	0	0	1.50	0.50			

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C/S
6-7612-1-1047
D6-1084
D6-6246TW
PAGE

43

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Decorative Sandwich Laminate MAT'L TYPE Thermoplastic EML 7599

IDENTIFICATION COLOR CODE, BAC NO. 10-60782-372 MATERIAL Tedlar/Vinyl

MANUFACTURER Polyplastex PROPOSED USE Decorative Interior

TEST METHODS AND REQUIREMENTS

Test Method: D6-8099 Flame Resistance.

Requirement: D6-9069. Shall extinguish in 15 seconds or less when tested horizontally and vertically.

DEVIATION FROM TEST METHOD

CALC	S. Michalski	1-12-66	REVISED	DATE
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SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
2	X		4	0	2.50	0.75			
3	X		19	0	3.75	2.00			
1		X	2	0	1.25	0.50			
2		X	3	0	1.50	0.75			
3		X	2	0	1.00	0.50			

C/S
6-7612-4-1047
D6-1084
D6-6246TN
PAGE

42

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Decorative Sandwich Laminate MAT'L TYPE Thermoplastic EML 7599
 IDENTIFICATION COLOR CODE, BAC NO. 10-60782-370 MATERIAL Tedlar/Vinyl
 MANUFACTURER Polyplastex PROPOSED USE Decorative Interior

TEST METHODS AND REQUIREMENTS Test Method: D6-8099 Flame Resistance
 Requirement: D6-9069. Shall extinguish in 15 seconds or less when tested horizontally and vertically.

DEVIATION FROM TEST METHOD

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SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
1	X	0	0	3.75	2.75			Large amount of smoke evolved.
2	X	0	0	4.50	2.75			
3	X	0	0	5.25	3.75			
1		0	0	1.25	0.75			
2	X	0	0	1.00	0.75			
3	X	0	0	1.00	0.75			

C/S
 6-7612-11 1047
 D6-1084
 D6-6246TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Reveal-Forward Entry Door 1 MAT'L TYPE Thermoset RML

IDENTIFICATION COLOR CODE, BAC NO. Off-White MATERIAL 2

MANUFACTURER _____ PROPOSED USE _____

TEST METHODS AND REQUIREMENTS
 Test Method: D6-8099 Flame Resistance. NOTE: The reveal was tested in horizontal and vertical positions.

Requirement: Shall not exceed 4 in/min. when tested in the horizontal position.

DEVIATION FROM TEST METHOD

- 1 Drawing #65-31489-1
- 2 Glass reinforced polyester per BAC 5427. Thickness: 0.05-0.08 inches.

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
	X		73.4		.88	.88			Large volume of black smoke and soot evolved.
	X		56.3		.50	.50			
	X		51.6		.75	.75			
	X		65.4		2.0	1.75			
	X		65.7		2.0	1.25			
	X		35.6		1.25	.50			

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C/S
 6-7612-4-387
 D6-1084
 D6-6488TN
 PAGE

CATEGORY 17

THERMOPLASTICS: MOLDING AND EXTRUDING GRADES, PRESSURE - FORMING
SHEET STOCK, DECORATIVE MATERIALS

TESTED AT 1575°F, USING NATURAL GAS.

CAT-17
B-347

ACRYLO-NITRILE BUTADIENE STYRENE COPOLYMER

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	DCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				DCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
Plastic Sheet, ABS Type 2 (.047" thick) Boltaron	2.7	0	0	-	-	-	-	-		
ABS Sheet (.062" thick) Boltaron	0	0	0	-	-	-	-	-		
ABS Sheet (.100" thick) Boltaron	0	0	0	-	-	-	-	-		
ABS Sheet (.031" thick) Boltaron	93	0	9	-	-	-	-	-		
ABS Sheet (.031" thick) Boltaron 6600, General Tire	135	-	12.5	-	-	-	-	-		
ABS Sheet (.062" thick) Boltaron 6600, General Tire	0	0	0.1	-	-	-	-	-		
ABS Sheet (.078" thick) Boltaron 6600, General Tire	0	-	0	-	-	-	-	-		
ABS Sheet (.016" thick) Boltaron, General Tire	60	0	12.0*	-	-	-	-	-	*Entire specimen	
Boltaron, White, Series 1660024, smooth grain, 0.15", General Tire	25	0	2.6	-	-	-	-	-		
Boltaron, White, Series 1660024, BE grain, .031", General Tire	0	0	1.1	-	-	-	-	-		
Boltaron, Grey, Series 6600, No. 6617, Hairocell Grain, .062", General Tire	1	0	1.2	1.7**	4.9	0	5.9	7.4**	**Average of two specimens	
Boltaron, Grey, Series 6600, No. 6617, Hairocell Grain, .047", General Tire	0	0	0.8	2.1**	1.3	0	4.1	5.5	**Average of two specimens	
Boltaron 6600, Grey, .035", General Tire	41	14	5.5	-	-	-	-	-		
Boltaron 6600, White, .032", General Tire	162	0	12.0*	-	-	-	-	-	*Entire specimen	
Royalite 56, .031", Uniroyal	33	0	5.4	-	-	-	-	-		
Royalite 56, .062", Uniroyal	5.8 Min.	-	10.3	-	-	-	-	-		
Royalite 56, Control #6167, .062" Uniroyal	2.8 Min.	8	9.5	-	-	-	-	-		
Royalite 56, Control #62167, .078", Uniroyal	1.8 Min.	-	2	-	-	-	-	-		
Royalite 56, White, .034" Uniroyal	163	0	12.0*	-	-	-	-	-	*Entire specimen	
Royalite 57, .031, Uniroyal	22	0	2.6	4.7	56	0	8.4	12.0*	*Entire specimen	
Expanded Royalex, ABS Uniroyal	15+ Min.	-	12.0*	-	-	-	-	-	*Entire specimen	
Extruded S.F. ABS from Atlas Plastics Corp., Salton City, Calif., .04" .06" .09" .125"	12 128 0 0	6 19 0 2	1.5 5.5 0.3 0.2	2.7 7.7 2.6 1.2	- - - -	- - - -	- - - -	- - - -		
ABS, 0.062 inches, Atlas Plastics	3	0	0.3	2	-	-	-	-		
ABS Sheet (.078" thick) Atlas	1	0	0.1	-	-	-	-	-		
ABS Sheet (.096") Atlas X-96, Atlas Plastics	3	2	0.5	-	-	-	-	-		
ABS Sheet (.125" thick) Atlas	5	0	0.1	-	-	-	-	-		
Seilon S-3 FRP (.031" thick) Seilon Inc.	120	0	7.4	-	-	-	-	-		

ACRYLO-NITRILE BUTADIENE STYRENE COPOLYMER

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	COC-T-191b, METHOD 5902 12 SEC. EXPOSURE				COC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
Seilon 8-3 FRF (.045" thick) Seilon Inc.	93	0	5.7	-	-	-	-	-		
Seilon 8-3 FRF (.060" thick) Seilon Inc.	7	0	0.5	-	-	-	-	-		
Abscon (.031" thick) B. F. Goodrich	196	0	12*	-	-	-	-	-	*Entire Specimen	
Abscon 89129 (.040" thick) B. F. Goodrich	210	0	12*	-	-	-	-	-	*Entire Specimen	
Abscon 89129 (.062" thick) B. F. Goodrich	2	0	0.3	-	-	-	-	-		
Sheet, plastic, ABS, flexible (0.062" thick) Vendor unknown	114	0	12*	-	-	-	-	-	*Entire Specimen	
White ABS, (.031") Vendor unknown	122	0	8.7	-	-	-	-	-	Two Specimens of the three burned the entire 12.0 inches.	
ABS Extrusion, Cargo curtain attachment, vendor unknown	1	0	0.3	1.0	-	-	-	-		
ABS, Boltaron 6800 (.030") General Tire & Rubber	0	0	0.9	-	0	7	4.6	-		
ABS, Boltaron 6800 (.031") General Tire & Rubber	0	0	1.3	1.9	6	0	5.5	6.0		
ABS, Boltaron 6800 (.030") General Tire & Rubber	1	0	1.4	2.2	0	6	5.2	5.9		

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	OCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				OCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
Lead Filled Chlorinated Polyethylene #20-45-2, CRP	11	2	4*	-	-	-	-	-	*Entire Specimen	
Lexan Polycarbonate 8600-116, .010", General Electric	53	0	4.3	6.6	-	-	-	-		
Lexan Polycarbonate FS7030, 8070-112, .020" General Electric	221	0	9.3	-	-	-	-	-	Material Drips & Burns	
Royalite Polycarbonate #1, .080", White, Uniroyal	6	0	0	0.9	12	0	3.0	4.0		
Lexan Polycarbonate 9604-116, .060", General Electric	-	-	-	-	12	0	0.6	3.7		
Lexan Polycarbonate 9400, 0.030", General Electric, DMS 1713	309	0	6.3	8.4	290	0	12.0*	-	Material Drips & Burns *Entire Specimen	
Lexan Polycarbonate 9700, .040", General Electric	6	0	0.2	0.2	81	0	2.1	4.9		
Lexan Polycarbonate 9400, Standard Grade, .062", DMS 1713, General Electric	71	0	2.7	-	-	-	-	-	Material Drips & Burns	
Polycarbonate 9510-112, Forming Grade, .080", General Electric	89	0	2.8	-	-	-	-	-	Material Drips & Burns	
Polysulfone, 0.030", Westlake Plastics	-	-	-	-	0	4	1.1	4.5		
Polysulfone, High Impact, PYRO-3716, 0.10", Union Carbide	-	-	-	-	0	0	2.8	-		
PVC Bakelite, .009", Blue, 1975 VAC 3603, Union Carbide	8	1	6.5	-	-	-	-	-		
PVC, Flexible Plastic Extrusion EP-280, 60 Shore, A Hardness, DMS 1724, Borden Chemical Co.	8	0	1.0	1.0	6	0	4.0	4.0		
Kydex, 0.080", White, Rohm and Haas	-	-	-	-	1	0	2.4	3.5		
Kydex, 0.040", Rohm and Haas	0	0	0.8	-	-	-	-	-		
Seat Track Cover, Esthane Urethane, Davidson	10	0	0	1.7	-	-	-	-		
Seat Track Covers: Part #2887788-1, PVC, Davidson	-	-	-	-	0	8	1.5	2.3		
Part #3936429-1, Polyurethane, Davidson	-	-	-	-	2	108+	1.9	5.9		
Part #2923544-1, PVC	-	-	-	-	33	0	0.9	2.1		
Part #3708559-1	-	-	-	-	3	0	2.2	-		
PP0, 0.020", General Electric	-	-	-	-	0	0	3.9	6.4		
Kapton Film: #1 200H (2 Mil) - Dupont	0	0	1.4	-	-	-	-	-		
#2 300H (3 Mil) - Dupont	0	0	1.3	-	-	-	-	-		
#3 500H (5 Mil) - Dupont	0	0	1.1	-	-	-	-	-		
#4 2 Mil Kapton + 300A Aluminum G. T. Schjeldahl	0	0	0.6	-	-	-	-	-		
Kapton, 2 Mills with vacuum deposited aluminum, G. T. Schjeldahl	0	0	1.6	-	-	-	-	-		
Commercial Backing sheet, Formica Type, General Electric	13	314	1.7	-	-	-	-	-		
French Blue Formica, #926, Formica Corp.	71	195	3.7	-	-	-	-	-		
Antique White Formica, #932, Formica Corp.	102	72	6.9	-	-	-	-	-		
Belge Formica #879, Post Forming Type, Formica Corp.	34	21	2.2	2.8	3	40	5.1	6.4		
Polyurethane Film MP-2383, Fire Retardant .005", Molded Products	12	0	1.3	-	-	-	-	-		

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	CCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				CCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
Acilar 22A, 9 Mil, Allied Chemical	0	0	2.7	4.4	-	-	-	-		
Cast Gel Coat Film, Fabricated per DPM 2965-1	49	0	8.0*	-	-	-	-	-	Only Two Specimens Tested, Material Drips & Burns * Entire Specimen	
Cast Gel Coat Film, RAM 40-32, RAM Chemical Co.	3	0	7.0	-	-	-	-	-	Only Two Specimens Tested	
Cast Gel Coat Film, Presto 5881, Presto Chemical Co.	23	0	8.5*	-	-	-	-	-	Only Two Specimens Tested * Entire Specimen	
Taylorite (13 .015" Vulcanized Fiber, Taylor Corp.	0	31	3.5	-	-	-	-	-		
Fume & Fire Hood: Sewn with Nylon thread, Flexform's AZ-24 Fiberglass Fabric vinyl coated, and unidentified Lexan, 0.015", lenses	1) 0 2) 112	3 0	5.2 6.5*	-	-	-	-	-	(1) Fiberglass (2) Lexan	
Extruded Noryl MC Grain, Uniroval	4	0	0	0.8	-	-	-	-		
Coated Royalex, Uniroval, Life-raft storage container	12.5 Min. -	0	12.0*	-	20 Min. 0	0	12.0*	-	Coated with 3.5 Mils of Pratt & Lambert FR 1701. Edge Exposed Edge Coated	
	12.0 Min. -	0	12.0*	-	-	-	-	-	Coated with 3.5 Mils of Albi 107 Edge Exposed	
	-	-	-	-	0	0	3.0	-	*Entire specimen consumed.	
Lexan Polycarbonate 9600-116, .060", G.E.	3	0	0	2.1	3	0	.9	3.7		
Polycarbonate 9600, .065", Opaque Brown, G.E.	-	-	-	-	13	0	0.3	3.8	Material Drips and Burns	
Polycarbonate 9700, .015", Lab #411, G.E.	8	0	0.3	2.8	6	0	0.2	2.3		
Kydex, .065", Opaque Brown Rohm & Haas	-	-	-	-	1	0	2.5	3.8		
Plastic Seat Track Covers Part #2897788-1, PVC, Davidson	-	-	-	-	0	8	1.5	2.3		
Part #2926429-1, Polyurethane, Davidson	-	-	-	-	2	180+	1.9	5.9		
Part #2923544-1, PVC	3	0	0	0.6	33	0	0.9	2.1		
Part #3708559-1	-	-	-	-	3	0	2.2	-		
Part #2927251-1 Extruded Polyurethane	10	0	0.1	1.2	3	0	2.1	5.1		

POLYPLASTEX

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	CCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				CCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
ABSKYN, .060, with one layer .040 Kydex, French Blue, rec'd 4-2-66	0	0	0.6	1.1	6	0	4.4	5.1		
ABSKYN, .030, Plain, 2 layers .015 Boltaron 6600 ABS	35	4	3.8	4.9	0	26	5.8	7.3		
ABSKYN, .030, Plain, 2 layers .015 Boltaron 6800 ABS	1	0	1.4	2.2	0	6	5.2	5.9		
ABSKYN, .047, with 2 layers .010 Boltaron 6600 ABS backed by Vinyl Asbestos, French Blue	0	0	1	1.8	20	0	5.4	6.4		
ABSKYN, .047, with 2 layers .010 Boltaron 6800 ABS backed by Vinyl Asbestos, French Blue	0	0	0.9	1.8	17	2	4	5.1		
5-477 Panlam, Soft White, Gold Chips DMS 1895, Type 1	-	-	-	-	1	0	7.2	8.2		
5-438, Pancove, Brilliant White DMS 1895, Type 2	3	0	2.7	4.1	0	0	5.4	6.1		
6-140, ABSKYN, .125 Cove Blue	0	0	0	1	4	0	1.8	2.9		

POLYPLASTEX

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	CCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				CCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
Tedlar Coated .032" Panmetal - Gold Pearlescent/Tedlar/ Silkscreened with .001" Tedlar	-	-	-	-	0	0	0	1.4		
Epoxy/Glass/Gold Pearlescent Coated Tedlar Silk Screened Filigree Net Design	4	0	3.0	5.0	-	-	-	-		
Decorative Vinyl Laminated to .008 Fiberite Epoxy Glass	0	0	0	3.6	-	-	-	-		
Nomex Epoxy Coated/ .002" White Opague Tedlar Surface	5	1	1.5	2.2	-	-	-	-		
Experimental Nomex Backed Polyplastex	0	0	1.3	-	-	-	-	-		
Pancove Special, Winter Green W/Fire Retardant Flex	0	0	2.3	-	-	-	-	-		
Pancove Special, Winter Gold With Fire Retardant Flex	0	0	2.0	4.8	-	-	-	-		
Silk Screened Oustrafol Panmetal	0	0	0	4.3	-	-	-	-		
S-256, ABSKYN, Winter Gold, Silver Hexes, .078, DMS 1857	-	-	-	-	47	0	4	5		
S-408, ABSKYN, Quatrefoil 4F SW Negative on Gold Pearl, .047 DMS 1857	4	1	1	1.9	34	0	5.5	6.8		
S-437, ABSKYN, Soft White Cirrus, .062, DMS 1857	-	-	-	-	122	2	7.1	7.5		
S-443, ABSKYN, Pearl Sage, .125 DMS 1857	-	-	-	-	0	4	2.5	3.4		
6-102, ABSKYN, White, .078, DMS 1857	-	-	-	-	65	1	4.2	5.0		
6-197, ABSKYN, Copperstone, .070, DMS 1857	-	-	-	-	54	2	3.4	4.3		
6-210, ABSKYN, Type 2, Tahoe Blue, .035, DMS 1857	-	-	-	-	0	0	4.8	6.6		
6-214, ABSKYN, New Green, .070, DMS 1857	-	-	-	-	47	0	4	5		
6-241, ABSKYN, Gold Pearl White, .047, DMS 1857	-	-	-	-	65	3	7.4	8.2		
6-248, ABSKYN, White Cream, .062, DMS 1857	-	-	-	-	79	0	6.8	7.5		
ABSKYN, .047, with 2 layers .010 Boltaron 6600 ABS separated by Vinyl Asbestos French Blue	(1) 0 (2) 2	0 1	0.6 1.0	1.2 2.1	5 7	6 3	5.2 4.6	6 6.3	(1) Received 4-2-68 (2) Received 4-24-68	
ABSKYN, .047, with 2 layers .010 Boltaron 6800 ABS separated by Vinyl Asbestos French Blue	(1) 0 (2) 0	0 0	0.6 1.2	1.3 2.0	22 14	0 0	5.4 4	6 5.3	(1) Received 4-2-68 (2) Received 4-24-68	
ABSKYN, .070, with Vinyl Asbestos and 3 layers .010 Boltaron 6600 ABS, French Blue, rec'd 4-2-68	0	0	0.3	1	6	3	4.6	5.1		
ABSKYN, .070 with Vinyl Asbestos and 3 layers .010 Boltaron 6800 ABS French Blue, rec'd 4-2-68	0	0	0.4	1.1	3	0	4.2	4.6		

POLYPLASTEX

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	CCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				CCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
6-533, Pancove, Pale Blue	18	0	6.0*	-	-	-	-	-	* Entire Specimen	
6-481, Panmetal, Tahoe Pearlescent	0	0	0	0.1	-	-	-	-		
7-133, ABSKYN, French Blue, .047, DMS 1857	16	0	.3	-	-	-	-	-		
7-165, ABSKYN, Winter Gold, "Cirrus", DMS 1857	0	0	.4	-	-	-	-	-		
7-169, ABSKYN, Winter Green, .047, DMS 1857	1	0	.4	-	-	-	-	-		
7-188, ABSKYN, Pearl, .062, DMS 1857	0	0	.1	2.0	-	-	-	-		
7-192, ABSKYN, Pearl, .047, DMS 1857	19	0	.1	2.7	-	-	-	-		
7-199, ABSKYN, Desert Beige, .068, DMS 1857	0	0	.1	1.6	-	-	-	-		
7-204, ABSKYN, Cerulean Blue, .047, DMS 1857	1	0	1.5	-	-	-	-	-		
7-221, ABSKYN, Leghorn, .047, DMS 1857	5	0	.2	2.0	-	-	-	-		
7-225, ABSKYN, White Cream Natural Flakes, DMS 1857	0	0	1.0	1.5	-	-	-	-		
7-102, Panlam, Ochre, DMS 1895, Type 1	0	0	1.0	-	-	-	-	-		
7-142, Panlam, Sunset Rose, DMS 1895, Type 1	1	0	2.2	-	-	-	-	-		
7-151, Panlam, Winter Green, DMS 1895, Type 1	28	0	3.9	-	-	-	-	-		
7-164, Panlam, Cerulean Blue, DMS 1895, Type 1	0	0	3.8	-	-	-	-	-		
7-184, Panlam, Mint Blue, Tedlar Faced, DMS 1895, Type 1	3	0	3.8	-	-	-	-	-		
7-212, Panlam, Soft White "Cirrus" "Castles" "v", DMS 1895, Type 1	0	0	0.4	4.0	-	-	-	-		
7-220, Panflex "E", Leghorn DMS 1895, Type 2	14	0	3.1	5.6	-	-	-	-		
7-239, Panflex, Soft White, Gold Chips, DMS 1895, Type 2	2	0	2.5	-	-	-	-	-		
8-148, ABSKYN, .078 DMS 1857	-	-	-	-	18	0	3.5	4.7		
ABSKYN, .072, With Kydex, DMS 1857	0	0	.5	2.3	-	-	-	-		
ABSKYN, .070, With 2 Layers of .012 Asbestos Filled Vinyl	0	0	.8	1.6	-	-	-	-		
Bakelite Vinyl Asbestos Sheet	0	0	2.0	4.0	-	-	-	-		
Polyplastex Special Beige #57 on Buff - Vinyl/Asbestos ABSKYN .047 - .062	0	0	1.3	-	-	-	-	-		
Tedlar Faced Epoxy Nomex Sheet	4	4	1.7	2.7	-	-	-	-		

POLYPLASTEX

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	CCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				CCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
6-406, PANSKYN, Skye Blue,	1	0	.3	-	-	-	-	-		
6-412, PANSKYN, Vine	5	0	.3	-	-	-	-	-		
6-417, PANSKYN, Medium Blue	3	0	.5	-	-	-	-	-		
6-463, PANSKYN, Chamols	5	0	.8	-	-	-	-	-		
6-468, PANSKYN, Charcoal	2	0	.5	-	-	-	-	-		
6-520, PANSKYN, Goldtone Gold Hex	3	0	.3	-	-	-	-	-		
6-523, PANSKYN, Bronze Green	6	0	.3	-	-	-	-	-		
6-545, PANSKYN, Classique Blue	12	0	2.1	-	-	-	-	-		
6-551, PANSKYN, Manila	2	0	.5	-	-	-	-	-		
6-552, PANSKYN, Sable	4	0	.5	-	-	-	-	-		
6-553, PANSKYN, Blue Pearl	2	0	.4	-	-	-	-	-		
6-576, PANSKYN, Ivory	2	0	.4	-	-	-	-	-		
6-589, PANSKYN, Tangerine	3	0	.5	-	-	-	-	-		
6-597, PANSKYN, White	2	0	.5	-	-	-	-	-		
6-601, PANSKYN, Boston Blue	3	0	.5	-	-	-	-	-		
6-607, PANSKYN, Clay	9	0	.5	-	-	-	-	-		
6-613, PANSKYN, Edwardian Blue	4	0	.3	-	-	-	-	-		
6-220, Pantlax, Belge, DMS 1895, Type 2	7	0	2.7	-	-	-	-	-		
6-421, Pantlax, Light Turquoise, DMS 1895, Type 2	5	0	1.0	-	-	-	-	-		
6-491, Pantlax, Chamols	4	0	2.5	-	-	-	-	-		
6-500, Pantlax, Bronze Green	9	0	2.3	-	-	-	-	-		
6-579, Pantlax, Kowloon, DMS 1895, Type 2	8	0	3.5	-	-	-	-	-		
6-586, Pantlax, White Green, DMS 1895, Type 2	5	0	.1	-	-	-	-	-		
6-173, Pencove, Melon, DMS 1895, Type 2	8	0	4.7	6.5	0	0	7.8	18.0		
6-340, Pencove, Chamols, DMS 1895, Type 2	10	0	3.2	-	-	-	-	-		
6-398, Pencove, Turquoise, DMS 1895, Type 2	10	0	3.0	-	-	-	-	-		
6-437, Pencove, French Blue, DMS 1895, Type 2	6	0	2.5	4.3	-	-	-	-		
6-444, Pencove, Warm White, DMS 1895, Type 2	3	0	1.0	-	-	-	-	-		
6-445, Pencove, Chamols Pearlescent, DMS 1895, Type 2	8	0	4.9	-	-	-	-	-		
6-502, Pencove, Cerelean Blue, DMS 1895, Type 2	8	0	4.1	-	-	-	-	-		
6-523, Pencove, Pearl Ivory, DMS 1895, Type 2	12	0	4.8	-	-	-	-	-		

POLYPLASTEX

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	CCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				CCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
6-599, ABSKYN, Gray, .062, DMS 1857	0	0	.1	-	-	-	-	-		
6-610, ABSKYN, Clay, .047, DMS 1857	14	0	1.0	-	-	-	-	-		
6-203, Panlam, Gold Pearlescent White, DMS 1895, Type I	0	0	.5	-	-	-	-	-		
6-216, Panlam, Winter Gold, Gross Block, DMS 1895, Type I	4	0	0.3	-	-	-	-	-		
6-235, Panlam, Pink, DMS 1895, Type I	-	-	-	-	3	0	5.0	5.4		
6-260, Panlam, White Cream Stripes, DMS 1895, Type I	1	0	.5	-	-	-	-	-		
6-296, Panlam, Bronze, Revised, DMS 1895, Type I	2	0	.4	-	-	-	-	-		
6-394, Panlam, Bronze Green, DMS 1895, Type I	0	2	3.2	-	-	-	-	-		
6-440, Panlam, Pueblo, DMS 1895, Type I	0	0	.3	-	-	-	-	-		
6-441, Panlam, Cerulean Blue/ Blue Pearl Flake, DMS 1895, Type I	3	0	2.9	-	-	-	-	-		
6-446, Panlam, White, "Travertine" DMS 1895, Type I	0	0	.3	-	-	-	-	-		
6-485, Panlam, Aqua, Pacific "m", DMS 1895, Type I	1	0	.3	-	-	-	-	-		
6-487, Panlam, Pale Bronze Green, DMS 1895, Type I	2	0	.5	-	-	-	-	-		
6-510, Panlam, Canary Gold, DMS 1895, Type I	2	0	.5	-	-	-	-	-		
6-511, Panlam, White Cream Canary, DMS 1895, Type I	2	0	.5	-	-	-	-	-		
6-512, Panlam, Canary Gold, Nettex, DMS 1895, Type I	5	0	2.3	-	-	-	-	-		
6-539, Panlam, Cloud Blue, DMS 1895, Type I	2	0	2.5	-	-	-	-	-		
6-540, Panlam, Classique Blue, DMS 1895, Type I	3	0	3.5	-	-	-	-	-		
6-541, Panlam, Light Blue, DMS 1895, Type I	1	0	.5	-	-	-	-	-		
6-567, Panlam, Erin Natural On White, DMS 1895, Type I	3	0	.3	-	-	-	-	-		
6-595, Panlam, Mint Blue Tadlar Face, DMS 1895, Type I	3	0	3.8	-	-	-	-	-		
6-600, Panlam, Stone Gray, DMS 1895, Type I	0	0	3.2	-	-	-	-	-		
6-605, Panlam, Clay, DMS 1895, Type I	0	0	.8	-	-	-	-	-		
6-624, Panlam, Silver "Etruscan", DMS 1895, Type I	0	0	2.5	-	-	-	-	-		
6-234, PANSKYN	8	0	1.8	-	-	-	-	-		
6-375, PANSKYN, Sunset Rose	1	0	.6	-	-	-	-	-		
6-392, PANSKYN, Light Turquoise	0	0	1.0	-	-	-	-	-		

POLYPLASTEX

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	OCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				OCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
5-282, ABSKYN, Buff .047, DMS 1857	-	-	-	-	40	5	4.7	5.7		
5-316, ABSKYN, Gold Buff .070, DMS 1857	0	0	1.0	1.7	107	1	12.0		* Entire Specimen	
5-336, ABSKYN, White "Iceflow" .062 (Revised) DMS 1857	1	0	0.1	-	-	-	-	-		
5-438, Panlam, Brilliant White, DMS 1895, Type I	2	0	0.3	-	-	-	-	-		
5-477, Panlam, Soft White, Gold Chips, DMS 1895, Type I	-	-	-	-	1	0	7.2	8.2		
5-587, PANSKYN, Mint Blue	2	0	0.3	-	-	-	-	-		
6-169, ABSKYN, Everglades "H", .062, DMS 1857	0	0	0	-	-	-	-	-		
6-176, ABSKYN, Pink, .047, DMS 1857	0	0	.1	-	-	-	-	-		
6-222, ABSKYN, Soft White, .047, DMS 1857	-	-	-	-	18	0	4.3	4.7		
6-374, ABSKYN, Sunset Rose, .062, DMS 1857	0	0	0.1	-	-	-	-	-		
6-391, ABSKYN, Light Turquoise, .062 DMS 1857	0	0	1.0	-	-	-	-	-		
6-397, ABSKYN, Pale Bronze Green, .062, DMS 1857D	1	0	.1	-	-	-	-	-		
6-409, ABSKYN, Skye Blue, .047, DMS 1857	0	0	.3	-	-	-	-	-		
6-413, ABSKYN, Vine, .062, DMS 1857	1	0	.1	-	-	-	-	-		
6-416, ABSKYN, Medium Blue, .062, DMS 1857	0	0	.1	-	-	-	-	-		
6-424, ABSKYN, Antique White, DMS 1857	0	0	.1	-	-	-	-	-		
6-426, ABSKYN, Bronze Green, .062, DMS 1857	0	0	.2	-	-	-	-	-		
6-462, ABSKYN, Chamois, DMS 1857	0	0	.1	-	-	-	-	-		
6-489, ABSKYN, Turquoise, .032, DMS 1857	2	0	.3	-	-	-	-	-		
6-522, ABSKYN, Kowloon, .070, DMS 1857	1	0	.1	-	-	-	-	-		
6-531, ABSKYN, Classique Blue, .062, DMS 1857	4	0	1.4	-	-	-	-	-		
6-535, ABSKYN, Light Blue, .047, DMS 1857	3	0	.1	-	-	-	-	-		
6-577, ABSKYN, Ivory, .062, DMS 1857	0	0	.1	-	-	-	-	-		
6-578, ABSKYN, Mint Blue, .062, DMS 1857	0	0	.1	-	-	-	-	-		
6-586, ABSKYN, Tangerine, .062, DMS 1857	0	0	.3	-	-	-	-	-		
6-596, ABSKYN, White, .062, DMS 1857	0	0	.1	-	-	-	-	-		
6-598, ABSKYN, Sand, .047, DMS 1857	2	0	.1	-	-	-	-	-		

WINDOW SHADE MATERIALS

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	OCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				OCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
PF 17688 Panshade, Construction A (Polyplastex)	38	0	8.9	-	-	-	-	-		
PF 17688 Panshade, Construction B (Polyplastex)	35	0	9.2	-	-	-	-	-		
PF 17688 Panshade, Construction C (Polyplastex)	12	0	6.8	-	-	-	-	-		
PF 17688 Panshade, Construction D (Polyplastex)	27	0	8.6	-	-	-	-	-		
PF 18688 Panshade, Construction E (Polyplastex)	22	0	6.6	-	-	-	-	-		
PF 17688 Panshade, Construction F (Polyplastex)	28	0	10.7	-	-	-	-	-		
PF 17688 Panshade, Construction G (Polyplastex)	51	0	8.3	-	-	-	-	-		
UAL Panshade, buff (Ivory 2785) Construction 1 (Polyplastex)	-	-	-	-	0	11	6.6	8.1		
UAL Panshade, buff (Ivory 2785) Construction 2 (Polyplastex)	-	-	-	-	0	0	3.4	7.5		
UAL Panshade, blue (Blue 5725) Construction 1 (Polyplastex)	-	-	-	-	0	0	5.1	8.3		
UAL Panshade, blue (Blue 5725) Construction 2 (Polyplastex)	-	-	-	-	0	0	2.4	5.4		
5-427 Panshade (Production UAL) (Polyplastex)	52	0	11.5*	-	-	-	-	-	*Entire specimen	
5-265 White Panshade Production (Polyplastex)	56	0	11.7*	-	-	-	-	-	*Entire specimen	
Panshade Special, PA-20, Off White Construction VRPAP nylon (Polyplastex)	6	0	4.3	-	-	-	-	-		
#7-224 Panshade Cream (Polyplastex)	34	0	10.2	12	-	-	-	-		
8-125, Panshade white, blue print, 1/2 mil Tedlar coating (Polyplastex)	0	4	6.2	-	0	0	6.2	7.3		
8-125 Panshade blue, beige print, Tedlar over vinyl (Polyplastex)	1	3	5.3	6.6	0	0	7.5	9.4		
6-501 Panshade pale bronze green (Polyplastex)	63	0	10*	-	-	-	-	-	* Entire specimen.	
6-427 Panshade Gold pearlescent white (Polyplastex)	59	0	8.3	-	-	-	-	-		
6-364 Panshade blue gold (Polyplastex)	11	0	2.2	-	-	-	-	-		
Panshade with #108 glass fabric (Polyplastex)	-	-	-	-	0	0	3.2	4.9		
5 Mil Rigid Opacity Coating, 1 Mil Metallized Mylar (Polyplastex)	47	0	12*	-	-	-	-	-	Fully consumed, only one specimen tested.	
5 Mil Rigid Opacity Coating, nylon scrim, 1 Mil Metallized Mylar, Proposed (Polyplastex)	17	0	7.8	-	-	-	-	-	6 specimens tested	
Durashade, H-21S-200-2-600-032-620 Gold Fleck Sample 1 (Duracote Corp.)	0	2	1.6	-	-	-	-	-		
Vinyl-foil Durashade Sample 2 (Duracote Corp.)	19	0	7.0	-	-	-	-	-		

110

CATEGORY 18

GLASS REINFORCED PLASTIC SHEETS

TESTED AT 1575°F, USING
NATURAL GAS.

CAT-18
B-359

REINFORCED LAMINATES

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	CCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				CCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
"B" stage epoxy - glass, 0.116 in. thick	35	0	0	0.7	-	-	-	-		
"B" stage epoxy - glass, 0.119 in. thick	14	0	0	0.2	-	-	-	-		
"B" stage epoxy - glass, 0.125 in. thick	0	0	0	0.1	-	-	-	-		
"B" stage epoxy - glass, 0.103 in. thick	20	0	0	0.4	270	0	12*		*Entire Specimen	
"B" stage epoxy - glass, 0.113 in. thick	0	0	0	0.8	-	-	-	-		
"B" stage epoxy - glass, 0.025 in. thick	9	0	4.5	-	-	-	-	-		
"B" stage epoxy - glass, 0.023 in. thick	1	0	3.3	-	-	-	-	-		
"B" stage epoxy - glass, 0.027 in. thick	46	2	10.5	-	-	-	-	-		
Fiberglass laminate 0.012 in. thick	0	3	0	1.7	-	-	-	-		
"B" stage epoxy - glass, 0.023 in. thick	9	0	3.4	4.2	-	-	-	-		
"B" stage epoxy-glass, 0.023 in. thick	6	0	2.7	3.7	-	-	-	-		
"B" stage epoxy - glass, 0.124 in. thick	0	0	0	1.2	-	-	-	-		
Epoxy - glass, 0.030 in. thick	0	0	0.8	-	-	-	-	-		
"B" stage epoxy - glass	0	0	0.1	-	-	-	-	-		
"B" stage epoxy - glass	8	0	0.2	-	-	-	-	-		
"B" stage epoxy - glass	0	0	0.1	-	-	-	-	-		
"B" stage epoxy - glass	150	0	5.0	-	-	-	-	-		
"B" stage epoxy - glass, 0.128 in. thick	83	0	0	-	-	-	-	-		
"B" stage epoxy - glass	6	0	0	-	-	-	-	-		
Fiberglass laminate, 0.030 in. thick	28	0	6.3	-	-	-	-	-		
Fiberglass laminate, 0.020 in. thick	50	0	10.7*	-	-	-	-	-	*Entire specimen	
Epoxy - glass, 0.030 in. thick	2	0	2	-	-	-	-	-		
"B" stage epoxy - glass	5	0	0	0.7	-	-	-	-		
Fiberglass laminate, 0.126 in. thick	3	0	0	0.3	-	-	-	-		
"B" stage epoxy - glass	48	0	0	0.5	-	-	-	-		
"B" stage epoxy - glass	10	0	0	0.2	-	-	-	-		

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	CCS-T-191b, METHOD 5902 12 SEC. EXPOSURE				CCS-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
"B" stage epoxy-glass, 0.157 in. thick	2	0	0	0.7	-	-	-	-		
"B" stage epoxy-glass, 0.163 in. thick	2	0	0	0.1	-	-	-	-		
"B" stage epoxy-glass, 0.170 in. thick	1	0	0	0.1	-	-	-	-		
"B" stage epoxy-glass, 0.137 in. thick	67	0	0	0.8	-	-	-	-		
"B" stage epoxy-glass, 0.173 in. thick	1	0	0	0.1	-	-	-	-		
"B" stage epoxy-glass, 0.138 in. thick	9	0	0	0.1	-	-	-	-		
"B" stage epoxy-glass, 0.117 in. thick	33	0	0	0.8	-	-	-	-		
"B" stage epoxy-glass, 0.112 in. thick	26	0	0	-	-	-	-	-		
"B" stage epoxy-glass, 0.130 in. thick	0	0	0	0.2	-	-	-	-		
"B" stage epoxy-glass, 0.013 in. thick	0	2	0	7.2	-	-	-	-		
DMS 1668	-	-	-	-	0	2	1.9	5.8		
"B" stage epoxy-glass	0	0	2.1	2.9	-	-	-	-		
Fiberglass laminate, 1 ply	0	1	4.0	5.5	-	-	-	-		
Fiberglass laminate, 2 ply	0	1	3.4	4.5	-	-	-	-		
Fiberglass laminate, 3 ply	3	0	2.6	3.7	-	-	-	-		
DPS 1.456, Type 1	(1)66 (2)106 (3)85	0 0 0	2.1 2.7 1.7	- - -	- - -	- - -	- - -	- - -	(1) Coated with 2 coats of Pratt & Lambert FR 1701 (2) Coated with 2 coats of Pratt & Lambert FR 1701 plus additive (3) Coated first with Pratt & Lambert FR 1701 with additive, then without additive.	
Fire retardant epoxy-unidirectional plied glass, Nomex on both sides	16	1	0.4	-	-	-	-	-		
Fire retardant epoxy-unidirectional plied glass, asbestos on one side, DMS 1821	16	1	0.8	-	-	-	-	-		
Epoxy-glass with Tedlar impregnated paper (2 layers of epoxy-glass)	1	0	1.0	2.8	-	-	-	-		
Epoxy-glass with Tedlar impregnated paper (1 layer of epoxy-glass)	0	1	1.4	4.2	-	-	-	-		
Polyester-chopped glass fiber, with gel coat per DPS 1.456, Type 1, 0.12 to 0.21 in. thick	(1) 0 (2) 0	0 0	0.1 0.2	0.4 0.7	6 4	0 0	1.3 2.0	2.5 3.2	(1) Coated both sides with .008" Pratt & Lambert FR 1701 (2) Coated both sides with .0035" Pratt & Lambert FR 1701	
Epoxy-glass, with 2 mil Tedlar	0	0	2.3	3.2	-	-	-	-		
Epoxy-glass, with 2 mil Tedlar	0	0	2.1	3.2	-	-	-	-		

REINFORCED LAMINATES

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	DCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				DCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
DMS 1722, Type 2, 0.045 in. thick	162	0	13.0	-	-	-	-	-	*Entire specimen	
Polyester-glass, 0.030 in. thick	1	0	2.0	-	-	-	-	-		
Polyester-glass mat	2	0	0.9	2.5	5	0	4.0	-		
Polyester-glass fabric	(1) 11 (2) 1 (3) 1 (4) 2	0 0 0 0	1.8 0 2.3 0.8	3.4 2.0 - -	0 0 0 7	0 0 0 0	3.0 2.8 3.2 2.5	- - - -	(1) 2 Plys Glass - no gel coat (2) 3 Plys Glass - no gel coat (3) 2 Plys Glass - RAM 40-32gel coat (4) 3 Plys Glass - RAM 40-32gel coat	
Polyester-chopped glass roving	1	0	2.0	-	0	0	4.0	-		
Polyester-chopped glass roving, with gel coat per DPS 1.456, Type 1	(1) 0 (2) 0	0 0	0.1 0.1	0.4 0.7	6 4	0 0	1.3 2.0	2.5 3.2	(1) Coated both sides with .008" Pratt & Lambert FR 1701 (2) Coated both sides with .0035" Pratt & Lambert FR 1701	
DMS 1722, Type 1	-	-	-	-	0	8	2.5	4.5		
DMS 1898, Type 1, 0.045 in. thick	-	-	-	-	0	3	0.3	4.0		
DMS 1898, Type 1, 0.023 in. thick	-	-	-	-	0	4	0.4	3.8		
DMS 1898, Type 1, 0.023 in. thick	-	-	-	-	0	2	0.2	3.2		
DMS 1898, Type 2, 0.045 in. thick	-	-	-	-	0	3	0.1	4.4		
DMS 1898, 0.040 in. thick	-	-	-	-	0	2	2.7	4.5		
DMS 1898, 0.043 in. thick	-	-	-	-	0	3	2.0	3.3		
DMS 1898, Type 2, 0.020 in. thick	14	1	2.8	-	-	-	-	-		
DMS 1821, 0.020 in. thick	0	0	0.5	-	-	-	-	-		
DMS 1898, Type 1, 0.016 in. thick	8	0	3.1	-	-	-	-	-		
DMS 1821, 0.020 in. thick	25	0	6.0	-	-	-	-	-		
DMS 1821, 0.030 in. thick	11	0	1.2	-	-	-	-	-		
DMS 1821, 0.045 in. thick	0	0	1.3	-	-	-	-	-		
6 mils of vinyl on 10 mils of Conolite	(1) 1 (2) 4	2 0	0 0	3.3 4.0	-	-	-	-	(1) Unperforated (2) Perforated 8%	
DMS 1898, Type 1, 0.016 in. thick	0	2	0	2.5	-	-	-	-		

REINFORCED LAMINATES

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	CCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				CCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
Polyester-glass, with gel coat per DPS 1.456, Type 1	26	0	1.8	3.5	-	-	-	-		
Intumescent coating on glass fabric	38	0	0.8	1.5	24	0	1.5	3.5		
DMS 1722, Type 1, 0.020 in. thick	0	0	0.4	-	-	-	-	-		
DMS 1722, 0.030 in. thick	0	0	0.4	-	-	-	-	-		
DMS 1722, Type 3, 0.020 in. thick	0	2	1.2	-	-	-	-	-		
Polyester-glass, 0.060 in. thick	1	0	0.1	-	-	-	-	-		
Polyester-glass, 0.060 in. thick	7	0	0.2	-	-	-	-	-		
Polyester-glass, 0.110 in. thick	0	0	0.1	-	-	-	-	-		
Polyester-glass, 0.060 in. thick	172	0	12*	-	-	-	-	-	*Entire specimen	
Polyester-glass, 0.048 in. thick	48	0	3.1	-	-	-	-	-		
Polyester-glass, 0.060 in. thick	17	0	0.9	-	-	-	-	-		
DMS 1898, Type 1, 0.030 in. thick	1	3	0.8	-	-	-	-	-		
DMS 1722, Type 1, 0.016 in. thick	0	2	0	3.9	-	-	-	-		
DMS 1722, Type 2, 0.045 in. thick	0	0	0	1.4	-	-	-	-		
DMS 1722, Type 3, 0.050 in. thick	0	0	0	1.3	-	-	-	-		
Spraymat, with chopped glass roving, per DPS 1.453	58	0	3.9	-	-	-	-	-		
Polyester-glass, per DPS 1.44, Type 1	8	0	2.0	-	-	-	-	-		
Polyester with chopped glass fiber, with gel coat per DPS 1.456, Type 1	(1) 39 (2) 115 (3) 0	0 0 0	3.5 9.3 0	6.6 - 0.7	-	-	-	-	(1) .055 in. thick (2) .065 " " (3) .185 " "	
Polyester-glass, per DPS 1.44, Type 1, 3 ply	2	0	0.6	-	-	-	-	-		
Polyester-glass, per DPS 1.44, Type 1, 4 ply	2	0	0.9	-	-	-	-	-		
DMS 1898, Type 1, 0.023 in. thick	17	0	4.6	-	-	-	-	-		
DMS 1898, Type 1, 0.030 in. thick	74	0	12.0*	-	-	-	-	-	*Entire specimen	
DMS 1898, Type 1, 0.045 in. thick	114	0	13.0*	-	-	-	-	-	*Entire specimen	
DMS 1618, 2 ply	0	1	2.5	-	-	-	-	-		
DMS 1618, 3 ply	3	0	1.8	-	-	-	-	-		
DMS 1618, 4 ply	4	0	1.6	-	-	-	-	-		
DMS 1722, Type 2, 0.025 in. thick	19	0	4.5	-	-	-	-	-		
DMS 1722, Type 2, 0.030 in. thick	33	0	4.7	-	-	-	-	-		

REINFORCED LAMINATES

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	COC-T-191b, METHOD 5902 12 SEC. EXPOSURE				COC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
DMS 1558, 0.030 in. thick	1	1	.3	1.1	0	3	2	3.9		
Fiberglass laminate, 0.020 in. thick	0	2	1.5	-	-	-	-	-		
Hi-Impact cargo liner, 0.023 in. thick	19	0	0	4.4	-	-	-	-		
Hi-Impact cargo liner, 0.045 in. thick	0	0	0	1.2	-	-	-	-		
Phenolic-glass, AMS 3605, 0.020 in. thick	46	0	12.0*	-	-	-	-	-	*Entire specimen	
Phenolic-glass, AMS 3605, 0.053 in. thick	79	0	2.5	4.3	-	-	-	-		
Silicone-glass, 0.031 in. thick	2	0	0.1	-	-	-	-	-		
Silicone-glass, 0.018 in. thick	0	2	0.1	0.9	0	1	0.2	0.8		
Melamine-glass, decorative, 0.030 in. thick	8	0	1.2	-	-	-	-	-		
Melamine-glass, 0.030 in. thick	0	2	0.4	-	-	-	-	-		
Fiberglass laminate	3	0	.8	2.1	0	1	1.5	4.2		
DMS 1558, with 2 mil thick Tedlar face (perforated), total thickness 0.012 in.	2	0	1.9	4.1	0	0	2.3	5.6		
Polyester-glass (Intumescent paint impregnated in the polyester)	38	0	.8	1.5	24	0	1.5	3.5	Only one specimen tested	
Fiberglass laminate with intumescent coating, 0.030 in. thick	-	-	-	-	0	0	1.8	3.5		
Fiberglass laminate, 0.030 in. thick	1	1	0.3	1.1	0	3	2	3.9		

CATEGORY 20

DECORATIVE ELASTOMERIC SEAL MATERIALS

TESTED AT 1450°F, USING PROPANE GAS.

CAT-20
B-366

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Sweeper Seal 1 MAT'L TYPE Elastomer MML
 IDENTIFICATION COLOR CODE, BAC NO. Light Gray Color MATERIAL Silicone-Fabric Laminate
 MANUFACTURER PROPOSED USE Entry and Service Door Sweeper Seals

TEST METHODS AND REQUIREMENTS Test Method: D6-8099 Flame Resistance
 Requirement: Shall not exceed 4 in/min. when tested in the horizontal position.

DEVIATION FROM TEST METHOD
1 Drawing #65-58243-1A, D10-60882.

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED		CHAR		BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
				LENGTH INCHES	SECS.	LENGTH INCHES	INCHES			
	X	0		0		0				
	X	8.4		.13		.13				
	X	4.6		0		0				
	X	5.1		0		0				
	X	5.2		.75		.25				
	X	2.2		.63		.25				
	X	2.5		.50		.12				

CALC	Michalski	11-9-67	REVISED	DATE
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C/S
 6-7612-4-87
 D6-1084
 D6-45121-27TH
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Silicone Bulb Seal MAT'L TYPE Elastomer EML
 IDENTIFICATION COLOR CODE, BAC NO. BAC 1530-29-1 (Grey) MATERIAL Silicone-Fabric
 MANUFACTURER PROPOSED USE Entry and Service Door Seal

TEST METHODS AND REQUIREMENTS
 Test Method: D6-8099 Flame Resistance.
 Requirement: Shall not exceed 4 in/min. when tested in the horizontal position.

DEVIATION FROM TEST METHOD
 1 Silicone rubber per BAC D10-60882 reinforced with Dacron 117 fabric.

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
	X		34.6	3	.18	.18			Large amount of white smoke evolved.
	X		101.0	12	.50	.25			
	X		83.0	5	.50	.38			
	X		352.2	5	6.0	6.0			
	X		551.3	7	5.75	5.75			

CALCS	Michalski	11-9-67	REVISID	DATE	C/S 6-7612-4-87 D6-1084 D6-62460PN PAGE
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CATEGORY 21

ELASTOMERIC MATERIALS, GENERAL: SYNTHETIC RUBBERS, HEAT SHRINKABLE
TUBING, AND ELECTRICAL NON-CONDUCTORS

TESTED AT 1575°F, USING NATURAL GAS.

CAT-21
B-369

ELASTOMERS

MATERIAL DESCRIPTION	VEGETICAL BURN								REMARKS	MATERIAL STATUS
	CCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				CCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
X-31256 Silastic, silicone rubber Dow Corning	73	0	0.8	-	37	0	1.9	-		
X-31263 Silastic, silicone rubber Dow Corning	31	0	0.2	-	15	0	1.1	-		
RT-100-55 silicone rubber Dow Corning	7.5 Min.	0	5.3	-	-	-	-	-		
Silastic X-31274 silicone rubber Dow Corning	33	0	0.4	-	20	0	2.0	-		
Silastic X-31275 silicone rubber Dow Corning	34	0	0.7	-	31	0	1.5	-		
#960-C-1931 silicone rubber Kirkhill Rubber Co.	17	0	0.2	-	14	1	1.4	-		
Silicone 950-C-1911 Silicone 950-C-1906 Kirkhill Rubber Co.	8 13	40 3	0.1 0.3	- -	- -	- -	- -	- -		
P-317 PVC 80 Shore DMS 1724 Kirkhill	0	0	0.1	-	-	-	-	-		
EPR Rubber samples Douglas Prepared	38 117 50 178 63 1	180+ 180+ 180+ 180+ 180+ 31	0.3 1.3 1.0 6.0+ 1.5 0.1	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -		
#3R	51	180+	1.4	-	-	-	-	-		
#6R	38	180+	0.6	-	-	-	-	-		
#7	39	180+	1.0	-	-	-	-	-		
Lead filled materials Chemical Rubber Products, Inc.										
#1 Lead filled neoprene coated nylon #20-45-1	44	12	6*	-	-	-	-	-	*Entire Specimen	
#2 Lead filled chlorinated polyethylene #20-45-2	11	2	4*	-	-	-	-	-		
Trim; Hypalon Rubber DMS 1600 National Rubber	176	0	8*	-	-	-	-	-	*Entire specimen	
Gasket, Window, Main Cabin; Hypalon Rubber DMS 1726 (Vendor Unknown)	67	65	8 ⁽¹⁾	-	-	-	-	-	(1) Only one specimen tested	
Seal, Entrance Door; silicone rubber Coated Dacron Fabric DMS 1550 (Vendor Unknown)	81	0	7	-	-	-	-	-		
Seal, Exit Door; silicone rubber, LASR-6000	195	9	3	-	-	-	-	-		
Seal, Anacoustic Window; Silicone sponge DMS 1884 (Vendor Unknown)	101	36	3.5	-	-	-	-	-		
Seal, Door; neoprene rubber, 40 Shore (Vendor unknown)	32	0	1.2	-	-	-	-	-		
Seal, Window, Inside Cabin; silicone rubber (vendor unknown)	1	21	1	-	-	-	-	-		
Seal, Window; silicone rubber DMS 1894 Experimental configuration (Vendor unknown)	0	10	0	-	-	-	-	-		
Silastic S-2359 Silicone Rubber Dow Corning	8	11	0.1	0.2	(1) 17	9	1.3	1.6	(3) Avg. of 4 specimens	

CATEGORY 22

FINISHES: PAINTS, FILLERS AND SEALERS

TESTED AT 1450°F, USING PROPANE GAS.

CAT-22
B-371

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Lacquered Aluminum Panel 1 MAT'L TYPE EMI

IDENTIFICATION COLOR CODE, BAC NO. 1 MATERIAL 1

MANUFACTURER _____ PROPOSED USE _____

TEST METHODS AND REQUIREMENTS Test Method: D6-8099 Flame Resistance

Requirement: Shall extinguish (no time limit). The char length shall not exceed 4 inches in the horizontal and 8 inches in the vertical.

DEVIATION FROM TEST METHOD

1 0.047 thick aluminum panel. Surface treatment plus primer per D2-5000, SRF 2.30 plus hi-speed lacquer per D6-5000; F-14.904, Color was grey.

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
	X		0		0	0			No ignition.
	X		0		0	0			
	X		0		0	0			
		X	0		0	0			
		X	0		0	0			
		X	0		0	0			

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C/S
6-7612-4-70
D6-1084
PAGE

CATEGORY 23

ELECTRICAL CONDUCTORS: WIRE

REFER TO CATEGORY 26.

CAT-23
B-373

CATEGORY 25

HONEYCOMB

TESTED AT 1450°F, USING
PROPANE GAS.

CAT-25
B-374

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE									
IDENTIFICATION		See 1 and 2		MAT'L TYPE		ENL			
IDENTIFICATION COLOR CODE, BAC NO.				MATERIAL					
MANUFACTURER				PROPOSED USE					
TEST METHODS AND REQUIREMENTS		D6-8099 Flame Resistance. Shall extinguish. No time limit. Average char length shall not exceed 8 inches.							
NOTE:		Specimen holders were not used.							
DEVIATION FROM TEST METHOD		<p>1 3/8 Honeycomb Panel. Paper core BMS 4-8. BMS 8-2, Type 13 Faces. One side painted with BMS 10-11 primer and semi-gloss enamel.</p> <p>2 Same as 1 except painted with hi-speed flat lacquer, Sherwin Williams.</p>							
SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS	
								1	2
1	X		105					1	The paper core burned. Char Lengths: 1.75" on painted side and 3.5" on non-painted side.
1		X	113					1	Paper core burned.
2	X		13 and 36					2	Paper core burned. Char length on painted side: 0.5" and 1.625". Char length on non-painted side: 1.25" and 1.5".
2		X	10					2	Ignition flame applied to painted side.

CALC	S. NICHOLS	2/7/67	REVISED	DATE
CHECK				
APPD				
APPD				

C/B
A3-598
D6-1084
D6-6247M
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

Honeycomb Panel -


IDENTIFICATION

Formica and Vinyl Face

MAT'L TYPE See 

Sheet 1 of 2 BML

IDENTIFICATION COLOR CODE, BAC NO. See 

MATERIAL See 

Sheet 1 of 2

MANUFACTURER

PROPOSED USE

TEST METHODS AND REQUIREMENTS

DEVIATION FROM TEST METHOD

CALC	S. NICHOLS	2/7/67	REVISED	DATE
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SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
5.	X		3, 23, 30, 45, 68, 25			1/2-3/4			5. Ignition flame applied to the vinyl and paper core side. The vinyl extinguished at 3, 30 and 45 seconds. Most burning at bond line. The paper core extinguished at 23, 68 and 25 seconds.
6.		X	0, 6, 52			1/4			6. Same as 5. Most flaming on paper.
7.	X		0, 0, 11, 0			1/4-1			7. Ignition flame applied to vinyl face and wood edging.
8.		X	0, 88, 126			1/2			8. Same as 7. Most flaming on wood.

C/S
A3-598
D6-1084
D6-6247TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

Honeycomb Panel - Formica

IDENTIFICATION and Vinyl Face MAT'L TYPE

FML

IDENTIFICATION COLOR CODE, BAC NO.

MATERIAL

MANUFACTURER

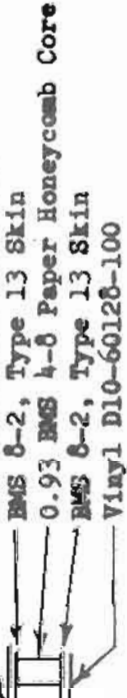
PROPOSED USE

TEST METHODS AND

REQUIREMENTS D6-6099 Flame Resistance. Shall extinguish (no time limit). Average Char Length: 8 inches. NOTE: Specimen holders were not used.

DEVIATION FROM TEST METHOD

Panel Construction:



SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
1.	X		0, 0, 23, 52.			0			1. Ignition flame applied to Formica face and wood edging. Most of the flaming took place on the wood.
2.	X		0, 0, 0			1/4			2. Same as under 1. above.
3.	X		22, 50			1/4			3. Ignition flame applied to Formica face and paper core side. Formica extinguished immediately. The paper burned.
4.	X		46			1/4			4. Same as under 3. above.

CALC	S. MICHALSKI	2/17/67	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
A3-59
D6-1084
D6-624TTM
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

BML

MAT'L TYPE

IDENTIFICATION Honeycomb Panel. See 1

MATERIAL

IDENTIFICATION COLOR CODE, BAC NO.

MANUFACTURER

PROPOSED USE

TEST METHODS AND

REQUIREMENTS D6-8099 Flame Resistance. Shall extinguish. No time limit. Average char length shall not exceed 8 inches. NOTE: Specimen holders were not used.

DEVIATION FROM TEST METHOD

- 1 Honeycomb Panel. 1" thick. Core: BMS 8-124, Class I, Type I, Grade 4. Each Face: 6 plies of BMS 8-79, Class I, Type 43 doublers and 3 plies of BMS 8-79, Class I, Type 0 Skins.
- 2 Honeycomb Panel, 1" thick. BMS 4-8 Paper Core. BMS 8-2, Type 13 Faces. Wood Edging.
- 3 Same as 2 except no wood edging.

SAMPLE NO.	MATERIAL POSITION: VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED CHAR LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
1	X	0		1/8				1 No ignition.
1	X	3, 9, 17, 20		3/4				1 All flaming on face of panel.
2	X	0, 71		1/8				2 Most flaming at bond line.
2	X	1, 10, 39		0				2 Most flaming at bond line.
3	X	13, 16, 18		1 1/8				3 Paper core burned.

CALC	S. MICHALSKI	2/17/67	REVISED	DATE
CHECK				
APPD				
APPD				

C/S
A3598
D6-1084
D6-6247TH
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Balsa Core Sandwich Panel, See  MAT'L TYPE ML

IDENTIFICATION COLOR CODE, BAC NO. _____ MATERIAL _____

MANUFACTURER _____ PROPOSED USE _____

TEST METHODS AND REQUIREMENTS D6-8099 Flame Resistance. Shall extinguish. No time limit. Average char length shall not exceed 8 inches.

DEVIATION FROM TEST METHOD  Stratoglass Balsa Core Panel, BMS 4-10, Type II, Grade I.

CALC	S. MICHALSKI	2/17/67	REVISED	DATE
CHECK				
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SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1.	X		22, 17, 27			0			1. Specimen holders were not used. All flaming on balsa wood.
2.	X		154			2.25, 6.0			2. Specimen holders were not used. Wood charred 6" at sides and 2.25" at center of specimen.
3.	X						231	2.60	3. Specimen holders not used. The flames traveled up one side 10" at bond line. The wood at center of specimen charred 2.5".
4.	X		207			3.0			4. Specimen holders used. The wood at center of specimen charred 3" and 0.5" on sides.
5.	X		175			1.5			5. Specimen holders used. The wood at center of specimen charred 1.5".

C/B
 13-59
 D6-1084
 D6-15105T
 PAGE



TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE









Balsa Core BML
 IDENTIFICATION Sandwich Panels, Sec.  and  MAT'L TYPE

IDENTIFICATION COLOR CODE, BAC NO. MATERIAL

MANUFACTURER PROPOSED USE

TEST METHODS AND REQUIREMENTS D6-8099 Flame Resistance. Shall extinguish. No time limit. The average char length shall not exceed 8 inches.

DEVIATION FROM TEST METHOD
 Fairchild Balsa Core Panel, BMS 4-10, Type II, Grade I.
 General Veneer Balsa Core Panel, BMS 4-10, Type II, Grade I. Edges of panel potted with epoxy resin per D6-16333.

SAMPLE NO.	MATERIAL POSITION	VERT. HORIZ.	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	X		16, 18, 28			1/8			 Specimen holders were not used. Most of the flaming was on the face when tested in the vertical position.
	X		108, 143			3.0			 Some flaming on epoxy. Specimen holders not used.
	X		0, 0, 3			0			 Specimen holders not used. This specimen had epoxy at bottom and at one vertical edge. The wood extinguished but the vertical epoxy kept burning to top of specimen.
	X		210		5		300	1.40	 Specimen holders used. This specimen had epoxy at bottom only. Burned with sputtering flame. Shot sparks and ignitable gases. Flames on face. Extinguished at 5" mark.

CALC	S. MICHALSKI	2/17/67	REVISED	DATE
CHECK				
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APPD				

C/S
 A3-598
 D6-1084
 D6-15105T
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Honeycomb Panel - Acoustical MAT'L TYPE Honeycomb Panels BML
 IDENTIFICATION COLOR CODE, BAC NO. MATERIAL
 MANUFACTURER PROPOSED USE

TEST METHODS AND REQUIREMENTS

Test Method: D6-8099 Flame Resistance. No clamps used.
 Requirement: Shall extinguish (no time limit). Char length shall not exceed 4 inches in the horizontal and 8 inches in the vertical.

DEVIATION FROM TEST METHOD

1 Decorative Face Material #69-17999-120A (perforated) bonded to BMS 8-64 fabric, BMS 8-39 flyscreen, 0.93 BMS 4-8 core and BMS 8-2 Type 20 skin.

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	X	14.2		1.75	.25			1. Ignition flame applied to the decorative face and paper core.
	X	16.2		1.75	.25			
	X	11.7		1.75	.25			
	X	13.1		.88	.50			2. Most of the flaming was on the paper core.
	X	16.6		.88	.50			
	X	28.0		.88	.50			

CALC	Michalski	11-0-67	REVISED	DATE
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C/S
 6-7612-4-387
 D6-1084
 D6-6247TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

IDENTIFICATION Honeycomb Panel, Non-Acoustical 1 MAT'L TYPE Honeycomb Panel BML

IDENTIFICATION COLOR CODE, BAC NO. 1 MATERIAL 1

MANUFACTURER _____ PROPOSED USE _____

TEST METHODS AND REQUIREMENTS
 Test Method: D6-8099 Flame Resistance. No clamps used.
 Requirement: Shall extinguish (no time limit). Char length shall not exceed 4 inches in the horizontal and 8 inches in the vertical.

DEVIATION FROM TEST METHOD
1 Decorative Face Material #69-17999-120 (non-perforated) bonded to BMS 8-64 fabric, BMS 8-49 flyscreen, 0.93 BMS 4-8 paper core and BMS 8-2 Type 20 skin.

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
	X		5.0	0.75	0.25				1. Ignition flame applied to the decorative face and paper core. 2. Most of the flaming was on the paper core.
	X		12.7	0.63	0.25				
	X		15.0	0.75	0.25				
	X		9.0	1.00	0.25				
		X	0	0.75	0.38				
		X	0	0.88	0.38				
		X	2.2	0.50	0.38				

CALC	S. Michalski	11-9-67	REVISED	DATE
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APPD				
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C/S
 6-7612-4-387
 D6-1084
 D6-6247TN
 PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

Honeycomb Panel - Paper Core

IDENTIFICATION D10-60782-3009 Face

MAT'L TYPE

BML

IDENTIFICATION COLOR CODE, BAC NO.

MATERIAL



See

MANUFACTURER

PROPOSED USE

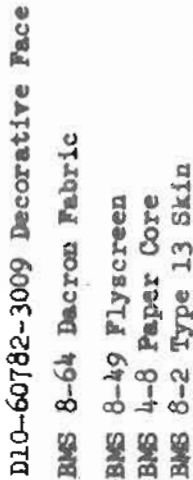
TEST METHODS AND REQUIREMENTS

Test Method: D6-8099 Flame Resistance

Requirement: Shall extinguish (no time limit). Char length shall not exceed 8 inches, when tested vertically and 4 inches when tested horizontally.

DEVIATION FROM TEST METHOD

1. Panel Construction:



Epoxy Edging, 0.375 x .375 deep.

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1*	X		17		1.5	1.0			*Ignition flame applied to paper core and decorative face.
2*	X		0		1.25	.87			
3*	X		1.0		1.37	.63			
1**	X		0		1.75	1.25			**Ignition flame applied to epoxy edging and decorative face.
2**	X		0		1.0	.50			
3**	X		0		1.25	.50			
1*		X	1.0		2.0	.63			
2*		X	8.0		1.75	.75			
3*		X	3.0		2.0	.75			
1**		X	0		2.0	.87			
2**		X	0		1.75	.50			
3**		X	0		2.5	.75			

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C/8
6-7512-4
D6-1084
D6-62477H
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

RML

IDENTIFICATION Honeycomb Panel - Nomex Core
D10-60782-3009 Face

MAT'L TYPE

MATERIAL See

IDENTIFICATION COLOR CODE, BAC NO.

MANUFACTURER

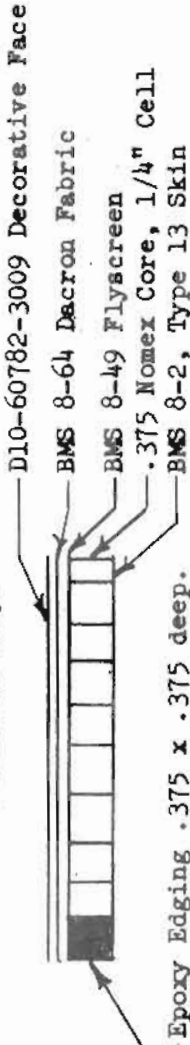
PROPOSED USE

TEST METHODS AND REQUIREMENTS Test Method: D6-8099 Flame Resistance

Requirement: Shall extinguish (no time limit). Char length shall not exceed 8 inches when tested vertically and 4 inches when tested horizontally.

DEVIATION FROM TEST METHOD

1 Panel Construction:



SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1*		X	0		.87	.5			*Ignition flame applied to Nomex core and decorative face.
2*		X	0		.87	.37			
3*		X	0		1.5	.75			
1**		X	0		1.0	.62			**Ignition flame applied to epoxy edging and decorative face.
2**		X	0		.75	.37			
3**		X	0		1.25	.50			
1*	X		0		2.0	.5			
2*	X		0		1.75	.37			
3*	X		0		2.5	.75			
1**	X		0		1.75	.5			
2**	X		0		2.0	.5			
3**	X		0		1.75	.75			

CALC	S. Michalski	1-29-68	REVISED	DATE
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C/S
6-7612-4-1047
D6-1084
D6-6247TN
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE

Honeycomb Panel - Nomex Core

IDENTIFICATION D10-60782-3008 Face

MAT'L TYPE

BML

IDENTIFICATION COLOR CODE, BAC NO.

MATERIAL See

MANUFACTURER

PROPOSED USE

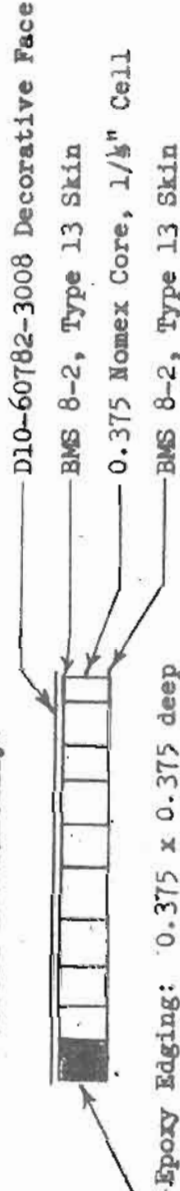
TEST METHODS AND REQUIREMENTS

Test Method: D6-8099 Flame Resistance

Requirement: Shall extinguish (no time limit). Average char length not to exceed 8 inches, when tested vertically and 4 inches when tested horizontally.

DEVIATION FROM TEST METHOD

Panel Construction:



Epoxy Edging: 0.375 x 0.375 deep

SAMPLE NO.	MATERIAL POSITION		EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
	VERT.	HORIZ.							
1*	X		1.0		1.25	.63			*Ignition flame applied to Nomex core and decorative face.
2*	X		0		1.0	.87			
3*	X		0		1.25	.75			
1**	X		0		.87	.50			**Ignition flame applied to epoxy edging and decorative face.
2**	X		0		1.0	.75			
3**	X		0		1.0	.75			
1*		X	0		1.5	.75			
2*		X	0		1.12	.50			
3*		X	1.0		1.25	.50			
1**		X	0		1.25	.63			
2**		X	0		1.37	.63			
3**		X	0		1.62	.75			

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APPD				
APPD				

C/S
6-7612-4-
D6-1084
D6-6247TM
PAGE

TEST REPORT DATA SHEET FOR FLAME/FIRE RESISTANCE
Honeycomb Panel - Paper Core

BML

MAT'L TYPE

IDENTIFICATION D10-60782-3008 Face

MATERIAL See

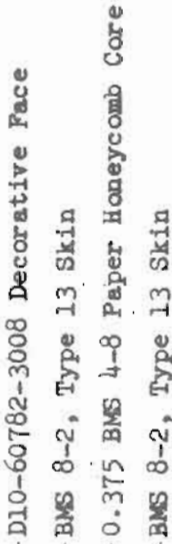
MANUFACTURER

PROPOSED USE

TEST METHODS AND Test Method: D6-8099 Flame Resistance

REQUIREMENTS

Requirement: Shall extinguish (no time limit). Average char length shall not exceed 8 inches when tested vertically and 4 inches when tested horizontally.



DEVIATION FROM TEST METHOD

Panel Construction:

Epoxy Edging 0.375 x .375 deep

SAMPLE NO.	MATERIAL POSITION	EXTING. TIME SECS.	AFTER GLOW SECS.	BURNED LENGTH INCHES	CHAR LENGTH INCHES	BURN TIME SECS.	BURN RATE IN/MIN	COMMENTS
1*	X	1.0		1.25	.87			*Ignition flame applied to paper core and decorative face. **Ignition flame applied to epoxy edging and decorative face. Face material extinguished immediately. All flaming on paper core.
2*	X	0		1.25	.87			
3*	X	0		1.0	.50			
1**	X	0		1.25	.87			
2**	X	0		1.25	.63			
3**	X	0		1.25	.75			
1*	X	28		2.39	.50			
2*	X	9		2.25	.50			
3*	X	10		1.63	.75			
1**	X	0		1.12	.37			
2**	X	1.0		1.62	.37			
3**	X	0		1.5	.37			

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C/S
6-7612-1-1047
D6-1084
D6-6247TN
PAGE

CATEGORY 25

HONEYCOMB

TESTED AT 1575°F, USING
NATURAL GAS.

CAT-25
B-387

HONEYCOMB

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	CCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				CCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
Nomex Honeycomb, 0.350" HRH-10-1/4-15, Hexcel	-	-	-	-	0	0	1.5	-		
Nomex Honeycomb, HRH-10-3/8, 3/8" Cell, 2# Density Phenolic Impregnated Heat Treated for 30 Min. at 275° F. (Hexcel)	0	0	0.3	-	-	-	-	-		
Fire Resistant Paper Honeycomb HNC-1/2-60(20) Heat Treated 30 Minutes at 275° F. Hexcel Corp.	0	0	3.5	-	-	-	-	-		
Fire Retardant Paper Honeycomb, HNC-1/2-60-18 (E) Hexcel Corp.	0	1	1.7	-	-	-	-	-		
Noncombustible Paper Honeycomb, 1/2-60(20) 3/8" thick Wickes Industries	0	0	3.9	-	-	-	-	-		
Fire Retardant Paper Honeycomb, DPM 5145, 1/2-60 (20)-FR Wickes Industries	41	0	12.0*	-	-	-	-	-	* Entire specimen - only one specimen tested	
Fire Retardant Paper Honeycomb, 1 inch thick, 1/2-60-20-40FR, 1.78 Lbs/cu.ft., Wickes Industries	0	0	0.8	-	0	0	1.4	-		
Fire Retardant Paper Honeycomb, 60-40-20, .825" (Vendor unknown)	2	0	2.5	-	-	-	-	-		
Fire Retardant Paper Honeycomb HNC-3/8-50(20)E, .35" Hexcel	-	-	-	-	0	0	3.4	-		
"C" Stage Polyimide Fiberglass Honeycomb, HRH-307-3/16-4.5- 5.0, Hexcel	0	0	0	-	-	-	-	-		

145

CATEGORY 26

MISCELLANEOUS ASSEMBLIES

TESTED AT 1450°F, USING
PROPANE GAS.

CAT-26
B-389

CATEGORY 26

MISCELLANEOUS ASSEMBLIES

TESTED AT 1575°F, USING
NATURAL GAS.

B-391

CEILING PANEL

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	CCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				CCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
Face: DMS 1821, glazed & painted Back: DMS 1722 Core: Fire retardant paper Adhesive: DMS 1903 Closeout: Basswood	(1) 0 (2) 0	0 0	0.1 0.1	2.2 2.2	24 0	0 5	0.6 0.9	5.1 4.7	(1) Wood Closeout exposed to flame (2) Honeycomb exposed to flame.	
Face: DMS 1821 Back: DMS 1821 Core: Fire retardant paper Adhesive: Fire retardant Thermoset	-	-	-	-	0	0	2.7	3.3		
Face: Silicone-glass, glazed and painted Back: Silicone-glass Core: Aluminum Adhesive: DMS 1903	0	0	0.1	2.1	1	0	1.1	3.8		
Face: Silicone-glass, glazed and painted Back: Silicone-glass Core: Fire retardant paper Adhesive: DMS 1903	0	0	0.1	4.1	1	4	0.9	5.0		
Face: Fiberglass laminates, glazed and painted with vinyl lacquer Back: Fiberglass laminates Core: Paper Adhesive: Unknown	71	0	0.1	3.0	-	-	-	-		
Face and Back: Plywood, DMS 1905 Core: Fire retardant paper Adhesive: DMS 1903	(1) 0 (2) 34 (1) 0 (2) 30 (1) 0 (2) 31	0 0 0 0 0	0.3 0.8 0.3 1.5 0.1 1.1	3.8 - 1.2 - 3.5 -	(3) 0 (1) 13 (3) 0 (1) 13 (4) 0 40	0 0 0 0 0 0	1.9 3.4 1.1 2.1 1.0 2.8	5.5 - 3.6 - 5.6 -	(1) Face (with coating) (2) Back (without coating) (3) Only one specimen tested (4) Only two specimens tested	
Face and Back: Plywood, DMS 1905 Core: Fire retardant paper Adhesive: DMS 1903	135	0	(1) 7.1 (2) 7.8	-	-	-	-	-	(1) Face (2) Core	
Face and Back: Plywood, DMS 1556 Core: Paper Adhesive: DMS 1551 Intumescent coating #1 on face	100	20	(1) 0.6 (2) 3.3	(1) 5.0 (2) 5.0	-	-	-	-	(1) Albs coated face (2) Plain face NOTE: Enough material for only one sample	
Face and Back: Plywood, DMS 1556 Core: Paper Adhesive: DMS 1551 Vinyl coating on face	89	19	(1) 1.1 (2) 2.3	(1) 1.9 (2) 2.8	-	-	-	-	(1) Painted side (2) Plain side	
Face and Back: Plywood Core: Paper Adhesive: Unknown Glaze & vinyl coating on face	138	180+	0	-	-	-	-	-		
Ceiling panel with: Fire retardant putty. Intumescent coating. Vinyl coating.	0	0	2.8	-	-	-	-	-		
Ceiling panel with: Vinyl coating. Wood edge. Core edge	0 270 150	0 310 360	3.0 7.0 11.0	- - -	- - -	- - -	- - -	- - -		
Ceiling panel with: Rubber edge. Wood edge	39 116	0 60	1.0 6.0	- -	- -	- -	- -	- -		
Ceiling panel with vinyl coating	(1) 167 (2) 157	78 61	5.6 4.7	8.2 7.1					(1) Foam edge exposed (2) Honeycomb edge exposed	

CENTUM PANEL

MATERIAL DESCRIPTION	VERTICAL BURN								REMARKS	MATERIAL STATUS
	CCC-T-191b, METHOD 5902 12 SEC. EXPOSURE				CCC-T-191b, METHOD 5902 60 SEC. EXPOSURE					
	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH	FLAME SEC.	GLOW SEC.	CHAR INCH	BURN INCH		
Face: Fiberglass laminate, DMS 1558 Back: "B" stage epoxy - glass Core: Fire retardant paper 1. no closeout 2. with closeout, rigid foam, DMS 1927, Type 9	-	-	-	-	(1) 11	1	2.9	3.4	(1) Avg. of 2 specimens (2) Avg. of 5 specimens	
Face: "B" stage epoxy-glass Back: "B" stage epoxy - glass Core: Fire retardant paper 1. no closeout 2. with closeout, rigid foam, DMS 1927, Type 9	-	-	-	-	(1) ₀ (2) ₁₀	2	4.0	4.8	(1) Avg. of 2 specimens (2) Avg. of 5 specimens	
Face: Glass with intumescent coating Back: Epoxy - glass Core: Nomex Adhesive: Unknown	-	-	-	-	(1) ₀ (2) ₀ (3) ₀	0	0.6	2.4	(1) Face (2) Core (3) Back	

APPENDIX C:
XP2 SMOKE TEST DATA

MATERIAL CHARTS

- C-2 ABS (Acrylo - Nitrile Butadiene Styrene)
- C-3 Carpets
- C-4 Elastomers
- C-5 Fabrics, Drapery
- C-6 Fabrics, Upholstery
- C-7 Fabrics, Industrial Coated
- C-8 Foams, Flexible
- C-9 Foams, Rigid
- C-10 Honeycomb
- C-11 Insulation, Fiberglass Batt
- C-12 Leather
- C-13 Miscellaneous (Vinyl Paint, Turbine Kerosene, India Mica)
- C-14 Panels, Ceiling
- C-15 Plastics (Miscellaneous)
- C-16 Plastics, Decorative
- C-17 Plastic Laminates, Reinforced
- C-18 Windows and Windscreens

XP2 SMOKE TEST DATA -ABS (Acrylo-Nitrile Butadiene Styrene)

MATERIAL DESCRIPTION	SPECIMEN			Maximum Smoke Production Rate, %/minute	Maximum Smoke Density, %	Smoke Density Rating, %, after		Visibility of Exit Sign
	Number	Thickness, inches	Number of Ply			2 minutes	4 minutes	
ABS	1	.22	3	200	100	88	94	Not visible
ABS, white, 0.031 in., DMS 1631	108	.24	8	180	100	89	93	Not visible
ABS, 0.062 in., DMS 1631, Type 2	112	.28	4	186	100	88	93	Not visible
ABS, 0.078 in.	172	.29	3	194	100	88	90	Not visible
ABS, 0.031 in.	214	.25	8	250	100	86	92	Not visible
ABS, 0.031 in.	148	.24	8	180	100	88	94	Not visible
ABS, 0.035 in.	185	.105	3	194	100	86	92	Not visible
ABS, 0.035 in.	178	.25	7	190	100	87	93	Not visible
ABS, 0.060 in.	149	.124	4	190	100	86	94	Not visible
ABS, 0.125 in.	150	.25	2	192	100	87	94	Not visible
ABS	184	.21	6	194	100	86	93	Not visible

XP2 SMOKE TEST DATA - CARPETS

MATERIAL DESCRIPTION	SPECIMEN			Maximum Smoke Production Rate, %/minute	Maximum Smoke Density, %	Smoke Density Rating, % after		Visibility of Exit Sign
	Number	Thickness, inches	Number of Ply			2 minutes	4 minutes	
Nomex, Natural	19	29	1	36	62	35	48	Visible
Nomex YK-2508A, with Nomex surface yarns, polyester backing fabric & fire retardant latex backing	102	24	1	72	55	43	41	Visible
Wool, cut pile	66	29	1	52	47	34	28	Visible
Wool YK-2368-L, with wool surface yarns, Polyester backing fabric & fire retardant latex backing	101	27	1	70	67	51	52	Visible
75% wool, 25% nylon, with polyester backing fabric & neoprene backing	109	27	1	94	85	66	65	Visible
75% wool, 25% nylon, with polyester backing fabric & neoprene backing	110	25	1	100	66	54	48	Visible
75% wool, 25% nylon, with polyester backing fabric & Neoprene backing	111	28	1	78	50	40	33	Visible
Wool "Tiles"	84	29	1	88	69	50	50	Visible
Wool "Tiles", flame treatment #7	90	28	1	116	87	68	72	White only
Wool "Tiles" flame treatment #8	91	28	1	290	95	83	86	White only
Wool carpet	275	22	1	101	80	48	53	Visible
Modacrylic, "no burn" - Blue	7	30	1	250	99	94	87	White only
Nylon, multicolor, "Strie-Rex" pattern 90003,	65	23	1	136	84	62	62	Visible
Polypropylene	64	20	1	240	94	78	74	Visible
Acrylic/Modacrylic, YK 2465 EBW 1K	3	25	1	166	98	78	80	White only
Acrylic	84	33	1	200	94	82	80	White only

XP2 SMOKE TEST DATA - Plasterers

MATERIAL DESCRIPTION	SPECIMEN			Maximum Smoke Production Rate, %/minute	Maximum Smoke Density, %	Smoke Density Rating, %, after		Visibility of Exit Sign
	Number	Thickness, inches	Number of Ply			2 minutes	4 minutes	
Gray silicone	225	.25	3	17	66	16	34	Visible
Hypalon	220	.26	1	80	100	65	81	Not visible
Hypalon	221	.26	1	52	98	48	71	White only
70 Shore A neoprene	222	.28	1	81	100	64	81	Not visible
Silicone seal	33	.27	3	17	55	21	33	Visible
Silicone	155	.24	3	25	45	20	30	Visible
Silicone	154	.24	1	22	37	10	28	Visible
White silicone	226	.23	3	9	37	9	20	Visible
EPR (40 Shore) rubber	11	.27	4	42	98	28	64	Not visible
EPR (80 Shore) rubber	12	.23	3	7	57	1	17	Visible

XP2 SMOKE TEST DATA - Drapery Fabrics

MATERIAL DESCRIPTION	SPECIMEN			Maximum Smoke Production Rate, %/minute	Maximum Smoke Density, %	Smoke Density Rating, %, after		Visibility of Exit Sign
	Number	Thickness, inches	Number of Ply			2 minutes	4 minutes	
Wool texture weave, #1401 as received, flame-treated,	95	.25	11	27	70	28	46	Visible
Wool texture weave #1401, after cleaning 5 times in Stoddard solvent, flame treated	96	.26	12	30	50	26	37	Visible
Wool gabardine, as received, flame-treated	97	.26	11	42	67	33	45	Visible
Wool gabardine - after cleaning with Stoddard solvent, flame treated	98	.26	11	40	82	30	51	Visible
Wool "Stripes," untreated	136	.25	4	48	35	26	22	Visible
Wool "Stripes" flame treated	135	.27	6	126	86	69	69	Visible
Wool-#30, untreated	137	.25	4	76	32	25	20	Visible
Wool-#30, flame treated	138	.25	4	134	80	66	60	Visible
Modacrylic with metallic yarns, Pattern 20065, color 2284 (turquoise)	175	.29	6	63	72	51	48	Visible
Modacrylic with metallic yarns, Pattern 20065, color 2286 (white)	174	.29	6	67	74	53	51	Visible
Modacrylic, #19890	274	.25	10	96	80	58	62	Visible
Modacrylic, #19303	34	.25	8	156	64	56	46	Visible
Modacrylic, custom screen print 6111-1	277	.25	6	120	76	61	53	Visible
Modacrylic, Forest Park Collection, background 6111-1	146	.25	6	100	73	56	50	Visible
Modacrylic, background 6109.16, Pattern 8521	145	.24	8	100	68	55	47	Visible
70% Modacrylic, 30% viscose, "Danube" #200; color natural	88	.24	11	52	44	34	34	Visible
Flame retardant rayon, ST-3275-3 blue	122	.26	8	16	17	13	13	Visible
Nylon & Mylar, powder blue #63/1062 Monsilver	134	.27	6	0	0	0	0	Visible
Nylon & Mylar, powder blue, #63/1062, Monsilver, flame treated	133	.27	6	74	92	58	69	White only
#980069, "Flame Stitch", flame-treated	267	.24	5	94	74	53	50	Visible
#980068, "Horizontal Stripes", flame-treated	268	.26	10	114	74	58	52	Visible
Nomex, dyeable fabric 2251-52-3, yellow	189	.25	13	10	5	6	5	Visible
Nomex, dyeable fabric, 2251-52-2, blue	252	.25	13	22	13	8	8	Visible
Nomex, dyeable fabric, 2251-52-1, red	251	.25	13	13	11	9	9	Visible
Polyester, Caroni curtain liner, flame treated	139	.25	56	300	98	88	89	White only
Delta glass fabric	4	.25	10	3	7	2	2	Visible

MATERIAL DESCRIPTION	SPECIMEN			Maximum Smoke Production Rate, %/minute	Maximum Smoke Density, %	Smoke Density Rating % After		Visibility of Exit Sign
	Number	Thickness, inches	Number of Ply			2 minutes	4 minutes	
Cotton, fire resistant	8	0.25	12	67	76	52	55	Visible
Cotton/rayon, #19357-F, 52% rayon, 48% cotton, with backing and flameproofed, as received	260	0.25	5	28	34	23	24	Visible
Cotton/rayon #19357-F, 52% rayon, 48% cotton, flameproofed; washed & dry cleaned five times (did not contain a backing)	239	0.25	5	8	13	7	10	Visible
Rayon, fire retardant	82	0.25	9	26	33	24	26	Visible
Nomex, 100%, ST 4501-1, with backing	74	0.23	7	94	50	42	39	Visible
Nomex, 100%, ST 4084-2, with backing	79	0.25	7	51	42	34	34	Visible
Nomex, 100% ST 4501-2, with backing	76	0.25	5	64	69	48	50	Visible
Nomex, test fabric #9	103	0.24	9	35	45	32	38	Visible
Nomex, red orange, with backing, ST-3011-217	147	0.25	7	90	48	41	37	Visible
Nomex, ST 3011-217 Avila red dyeable upholstery (backing on wrong side)	121	0.27	7	15	37	12	21	Visible
Nomex, Avila, no backing, ST 3011-217	182	0.27	6	24	18	14	13	Visible
Nomex, Avila, ST 3011-217, with backing	183	0.22	6	50	27	23	23	Visible
Nomex, upholstery, no backing, K15925N,	310	0.24	4	6	3	1	1	Visible
Nomex, upholstery #2063-37-B, Camden green, no backing	140	0.27	5	22	14	12	12	Visible
Nomex, Camden green #2063-37-B, with backing	181	0.23	4	74	58	44	43	Visible
Nomex - Modacrylic fabric, blue, green, & tan weave, K15495N pattern (warp: 100% Nomex continuous filament "industrial type", fill: 100% Modacrylic)	104	0.24	4	60	55	45	42	Visible
Nomex-Modacrylic fabric, blue, tan & white weave, K15495N pattern (warp: 100% Nomex continuous filament "industrial type", fill: 100% Modacrylic)	105	0.24	4	66	47	41	34	Visible
Nomex-Modacrylic fabric, K15495N pattern (warp: 100% Nomex continuous filament "industrial type," fill: 100% Modacrylic, yellow & white)	106	0.23	4	132	55	44	42	Visible
Modacrylic-glass, ST 4085-1, with backing	71	0.25	11	140	93	75	72	White only
Wool, #1, flame treated	176	0.22	3	7	15	7	10	Visible
Wool, #1	177	0.22	3	12	14	6	8	Visible
Wool & nylon, ST 4394-1	77	0.24	6	63	43	35	36	Visible
Nylon, 100%, "Avila" with backing	75	0.23	7	55	54	39	44	Visible
Nylon upholstery, flame treated	99	0.24	5	82	57	50	43	Visible
Nylon upholstery, yellow, flame treated	100	0.24	5	120	90	73	69	Visible
Nylon, Orion	67	0.24	9	0	0	0	0	Visible
Nylon & Dacron "Shane", with backing	73	0.23	7	120	79	61	60	Visible
Nylon-Modacrylic ST-4090-1, with backing	75	0.26	5	166	85	70	70	Visible
100% polyester, #980093,	52	0.23	6	232	58	37	44	Visible

XP2 SMOKE TEST DATA - Industrial Coated Fabrics

MATERIAL DESCRIPTION	SPECIMEN			Maximum Smoke Production Rate, %/minute	Maximum Smoke Density, %	Smoke Density Rating, %, after		Visibility of Exit Sign
	Number	Thickness, inches	Number of Ply			2 minutes	4 minutes	
DMS 1843, insulation blanket material (2.5 oz.)	261	.25	62	70	68	43	53	Visible
DMS 1693, Type 1	235	.25	25	138	99	74	85	Not visible
DMS 1693, Type 1	236	.25	25	56	75	45	60	Visible
DMS 1693, Type 2	293	.25	12	178	100	83	91	Not visible
DMS 1550, silicone rubber sheet, knit fabric reinforced	287	.25	4	26	72	26	47	Visible
DMS 1550, silicone rubber sheet, knit fabric reinforced	286	.25	4	19	75	20	42	Visible
DMS 1550, silicone rubber sheet, knit fabric reinforced	285	.25	4	29	96	30	55	Visible
DMS 1550, silicone rubber sheet, knit fabric reinforced	284	.24	4	48	99	45	70	Visible
DMS 1576, Type 2 silicone coated glass cloth	329	.25	19	9	52	15	28	Visible
DMS 1576, Type 1, silicone coated glass cloth	330	.25	36	17	61	15	44	Visible
Vitron coated glass cloth	224	.25	25	18	76	18	44	Visible
Fire-retardant butyl on Nomex	223	.24	15	45	80	41	57	Visible
White hypalon, fire retardant, 5.5 oz.	219	.25	10	160	100	73	84	White only
Lead filled vinyl coated polyester, sample A	305	.26	4	180	100	85	91	Not visible
Lead filled vinyl coated polyester, sample B	306	.24	3	180	100	85	91	Not visible

XP2 SMOKE TEST DATA - Foams, Flexible

MATERIAL DESCRIPTION	SPECIMEN			Maximum Smoke Production Rate, %/minute	Maximum Smoke Density, %	Smoke Density Rating, %, after		Visibility of Exit Sign
	Number	Thickness, inches	Number of Ply			2 minutes	4 minutes	
Polyurethane, 1.4 SE	63	.12	1	68	19	13	12	Visible
Polyurethane, 1.8 SE	59	.30	1	92	23	18	15	Visible
alone	60	.30	1	100	39	33	30	Visible
with AMS 3855 muslin	61	.30	1	200	56	42	36	Visible
with AN-3 Aclar	70	.30	1	50	25	20	18	visible
with beta glass fabric								
Polyester, Urethane #1		.49	1	63	21	17	4	Visible
Polyester Urethane #2 2 5.5 5 lbs/cu ft.)	282	.25	1	14	7	6	5	Visible
Polyether Urethane #1	190	.25	1	9	8	6	5	Visible
Polyether Urethane #1	294	1.00	1	74	37	32	28	Visible
Polyurethane, fire retardant, purple color, per MIL-P.46111	301	.39	1	46	16	10	9	Visible
Reticulated, beige, 10 PPI F.R. (alkali treated)	311	.39	1	18	11	10	7	Visible
Reticulated, beige, 10 PPI zapped (hot gas treated) F.R.	318	.39	1	48	22	18	15	Visible
Ensolite AH	320	.34	1	180	90	75	68	Visible
Ensolite AH, PVC	276	.54	1	186	96	80	76	Not visible

XP2 SMOKE TEST DATA, Foams, Rigid

MATERIAL DESCRIPTION	SPECIMEN			Maximum Smoke Production Rate, %/minute	Maximum Smoke Density, %	Smoke Density Rating, %, after		Visibility of Exit Sign
	Number	Thickness, inches	Number of Ply			2 minutes	4 minutes	
Polyurethane, fire resistant, density 2 lbs /cu ft.	312	.37	1	64	33	24	19	Visible
Polyurethane, 2 lbs/cu ft	316	.39	1	150	68	53	44	Visible
Polyurethane, 6-8 lbs/cu. ft.	302	.39	1	268	82	67	58	Visible
Polyurethane 6-8 lbs/cu. ft.	309	.39	1	124	92	80	79	Visible
Polyurethane, 6-10 lbs /cu. ft	303	.39	1	176	88	76	68	Visible
Polyurethane, 8-10 lbs/cu. ft	317	.39	1	182	91	79	72	Visible
Polyurethane, fire resistant, density 20 lbs /cu ft.	313	.39	1	118	79	61	64	Visible
Polyurethane 20 lbs/cu. ft	228	.39	1	124	83	66	69	Visible
Polyurethane per BMS 8-133, 20 lbs/cu. ft.	242	.40	1	140	86	69	73	Visible
Polyurethane, density 21 lbs/cu. ft	180	.39	1	184	100	88	89	Not visible
Polyurethane, 25 lbs/cu. ft.	229	.39	1	158	100	83	90	Not visible
Polyurethane, 25.5 lbs/cu. ft	244	.39	1	224	100	87	91	Not visible
Polyurethane 23-27 lbs/cu. ft.	118	.38	1	84	98	83	84	Not visible
Commercial polyurethane, 27.8 lbs/cu ft.	119	.39	1	186	100	86	89	Not visible
Polyurethane, closed cell	161	.54	1	90	45	36	30	Visible
Tridimensional polyurethane & E glass (AMS 26), white	162	.48	1	24	13	8	9	Visible
Polyethylene, non burning.	283	.25	1	8	4	2	2	Visible
PBI (polybenzimidazole), KK-4 E-AA-H-27.6.3 (N A S A)	304	.39	1	0	3	0	1	Visible

XP2 SMOKE TEST DATA - Honeycomb

MATERIAL DESCRIPTION	SPECIMEN			Maximum Smoke Production Rate, %/minute	Maximum Smoke Density, %	Smoke Density Rating, %, after		Visibility of Exit Sign
	Number	Thickness, inches	Number of Ply			2 minutes	4 minutes	
Fire retardant paper FR Type 40-60-20	83	1.00	1	230	63	50	40	Visible
Fire retardant paper FR Type 40-60-20	87	.37	1	60	18	15	12	Visible
Fire retardant paper FR Type 40-60-20	128	.33	1	9	9	9	8	Visible
Fire retardant paper, AMS 3720, 1/2-60-20-40 FR, 1.78 lbs/cu. ft, with special dipping process	156	1.00	1	44	22	16	14	Visible
Fire retardant paper, 3/8-50(20)E	266	.355	1	0	0	0	0	Visible
Phenolic impregnated paper, 3/8-60(20)E	50	.50	1	23	4	3	5	Visible
Phenolic impregnated paper, 3/8-60(20)E	86	.35	1	0	0	0	0	Visible
Nomex 3/8	35	.50	1	108	27	29	24	Visible
Nomex 3/8	36	.76	1	62	14	13	11	Visible
Nomex 3/4-1.5	265	.36	1	8	5	1	1	Visible
Aluminum, 3/8 5052-00	53	.63	1	0	0	0	0	Visible
Polyimide glass fiber	55	.75	1	100	24	21	16	Visible

XP2 SMOKE TEST DATA -Fiberglass Batt Insulation

MATERIAL DESCRIPTION	SPECIMEN			Maximum Smoke Production Rate, %/minute	Maximum Smoke Density %	Smoke Density Rating % after		Visibility of Exit Sign
	Number	Thickness, inches	Number of Ply			2 minutes	4 minutes	
Fiberglass batt, with melamine binder	14	.20	1	4	1	1	1	Visible

XP2 SMOKE TEST DATA -Leather

MATERIAL DESCRIPTION	SPECIMEN			Maximum Smoke Production Rate, %/minute	Maximum Smoke Density, %	Smoke Density Rating, %, after		Visibility of Exit Sign
	Number	Thickness, inches	Number of Ply			2 minutes	4 minutes	
Leather, DMS 10020	124	.25	6	30	26	10	16	Visible
Leather, DMS 10020	125	.27	6	46	33	4	14	Visible
Experimental flameproofed leather #30 (green)	126	.27	6	20	42	19	30	Visible
Leather #1	262	.25	4	4	4	3	3	Visible
Leather #2	218	.25	5	1	2	1	1	Visible

X12 SMOKE TEST DATA - Miscellaneous

MATERIAL DESCRIPTION	SPECIMEN			Maximum Smoke Production Rate, %/minute	Maximum Smoke Density, %	Smoke Density Rating %, after		Visibility of Exit Sign
	Number	Thickness, inches	Number of Ply			2 minutes	4 minutes	
Vinyl paint on aluminum	58	.05	1	23	16	8	11	Visible
DMS 1877 commercial turbine kerosene (7.6 cc, surface area = 1.9 sq. in.)	113	.24	-	95	100	73	85	Not visible
India Mica, 1/32 in.	127	.24	1	0	6	0	1	Visible

XP2 SMOKE TEST DATA - Ceiling panels

MATERIAL DESCRIPTION	SPECIMEN			Maximum Smoke Production Rate, %/minute	Maximum Smoke Density, %	Smoke Density Rating, %, after		Visibility of Exit Sign
	Number	Thickness, inches	Number of Ply			2 minutes	4 minutes	
Faces: "B" stage epoxy-glass Core: Phenolic-Nomex	263	0.38	1	150	75	62	53	Visible
Faces: Epoxy - glass Core: Phenolic - Nomex Adhesive: DMS 1903	44	.79	1	360	90	79	68	Visible
Faces: Epoxy - glass Core: Fire retardant paper Adhesive: DMS 1903	199	.39	1	174	92	75	66	White only
Faces: Epoxy - glass Core: Aluminum Adhesive: DMS 1903	49	.79	1	348	96	84	78	Visible
Faces: Epoxy-glass Core: PVC foam #2 Adhesive: DMS 1903	39	.83	1	392	99	91	89	White only
Faces: Nomex paper Core: Fire retardant paper Adhesive: DMS 1903	43	.77	1	275	73	65	54	Visible
Faces: Nomex paper Core: Phenolic-Nomex Adhesive: DMS 1903	45	0.81	1	300	78	68	59	Visible
Faces: Nomex paper Core: Aluminum Adhesive: DMS 1903	48	.79	1	240	90	76	67	Visible
Faces: Nomex paper Core: PVC foam #2 Adhesive: DMS 1903	37	0.89	1	336	91	80	75	White only
Faces: 7075 aluminum Core: Fire retardant paper Adhesive: DMS 1903	41	.78	1	114	71	55	50	Visible
Faces: 7075 aluminum Core: Phenolic-Nomex Adhesive: DMS 1903	46	.83	1	184	68	57	49	Visible
Faces: 7075 aluminum Core: Aluminum Adhesive: DMS 1903	47	.79	1	288	94	81	69	Visible
Faces: 7075 Aluminum Core: PVC foam #2 Adhesive: DMS 1903	38	.86	1	344	99	86	81	White only
Faces: Silicone-glass Core: Fire retardant paper Adhesive: DMS 1903	205	.39	1	120	72	56	49	Visible
Face: Decorative vinyl Back: Glass (unknown resin) Core: Paper Adhesive: (unknown)	270	.45	1	162	82	66	60	Visible