



Gilliner™ 1366C/1366F Laminate

Nov 2011

Description

Gilliner 1366C is a high impact resistant, fiberglass cloth reinforced polyester laminate. 1366F is identical to 1366C but has 1 mil white Tedlar® overlay.

Applications

Aircraft cargo compartment liner.

Features

- Superior mechanical strength, puncture resistance and corrosion resistance.
- Service temperature range: -100°F to 180°F.

Specifications

- Boeing specification BMS 8-2 Cl 2 Gr A - 1366C

- 1366T - Boeing specification BMS 8-2 Cl 2 Gr B - 1366F

- FAR Part 25, Appendix, F Parts I and III (burn through). - ALL

Availability

Thickness: .011", .020, .030", .045", .070. (Types 11, 20, 30, 45, 70, respectively)

Length: .011" to .050" thickness - up to 150' rolls; thicker - sheets up to 168" long.

Width: Up to 72" (60" max. in rolls).

Construction

Resin: Fire resistant polyester.
Reinforcement: Woven fiberglass.
Surface: Glossy, white.
Color: Natural.



Standard Tolerances

Thickness:	± 10%
Length:	+ 0.5", - 0"
Width:	+ 0.5", - 0"

Properties of Gillfab 1366C/1366F

Typical Values Reported Only in Warp Direction Except as Noted

Property	Test Method	Unit	Type 11	Type 20	Type 30
Weight	M.C. Gill GTP 085	lb/sq ft (kg/sq m)	0.145 (0.7)	0.210 (1.0)	0.292 (1.3)
Thickness	ASTM D2103	inch (mm)	0.012 (0.30)	0.019 (0.48)	0.033 (0.84)
Water Absorption	ASTM D570	%	1.3	1.3	1.6
Impact		ft-lb (N-m)	16 (22)	25 (34)	31 (42)
Edge Bearing Strength	ASTM D953				
Warp		ksi (MPa)	38.8 (267.6)	40.7 (280.7)	37.1 (255.9)
Fill		ksi (MPa)	33.7 (232.4)	40.5 (279.3)	36.3 (250.4)
Tedlar Peel	ASTM D1876				
Warp		in	0	0	0
Fill		in	0	0	0
Flexural Note 1	ASTM D790				
Strength		ksi (MPa)	NR	NR	NR
Modulus		msi (GPa)	NR	NR	NR
Bond Strength	ASTM D638	lb (kg)	577 (262)	880 (400)	972 (441)
Abrasion Resistance	ASTM D1242	gram	0.065	0.042	0.041
Flammability - Vertical	FAR 25.855				
Extinguishing Time		second	0	0	0
Burn Length		inch (mm)	2.5 (63.5)	1.6 (40.6)	1.6 (40.6)
Dripping Flame Time		second	0	0	0
Flammability - 45 Degree	FAR 25.855				
Extinguishing Time		second	0	0	0
Afterglow		second	0	0	0
Penetration		---	None	None	None
Oil Burner Note 2	FAR 25.855	---	Pass	Pass	Pass

Note 1 - Reported in warp direction.

Note 2 - Test performed by U. S. Testing in accordance to the procedure outlined in Appendix F, Part III of FAR 25.855, "Oil Burner - Burn through Resistance".

NR = No Requirement



Properties of Gillfab 1366C/1366F
Typical Values Reported Only in Warp Direction Except as Noted

Property	Test Method	Unit	Type 45	Type 70
Weight	M.C. Gill GTP 085	lb/sq ft (kg/sq m)	0.438 (2.0)	0.658 (3.0)
Thickness	ASTM D2103	inch (mm)	0.046 (1.17)	0.065 (1.65)
Water Absorption	ASTM D570	%	1.7	1.7
Impact		ft-lb (N-m)	41 (56)	47 (64)
Edge Bearing Strength	ASTM D953			
Warp		ksi (MPa)	40.5 (279.3)	47.2 (325.5)
Fill		ksi (MPa)	39.5 (272.4)	40.3 (277.9)
Tedlar Peel	ASTM D1876			
Warp		in	0	0
Fill		in	0	0
Flexural Note 1	ASTM D790			
Strength		ksi (MPa)	28.31 (195.2)	33.82 (233.2)
Modulus		msi (GPa)	3.27 (22.6)	2.80 (19.3)
Bond Strength	ASTM D638	lb (kg)	1,015 (461)	1,307 (593)
Abrasion Resistance	ASTM D1242	gram	0.100	0.049
Flammability - Vertical	FAR 25.855			
Extinguishing Time		second	0	0
Burn Length		inch (mm)	1.4 (35.6)	1.8 (45.7)
Dripping Flame Time		second	0	0
Flammability - 45 Degree	FAR 25.855			
Extinguishing Time		second	0	0
Afterglow		second	0	0
Penetration		---	None	None
Oil Burner Note 2	FAR 25.855	---	Pass	Pass
Note 1 - Reported in warp direction. Note 2 - Test performed by U. S. Testing in accordance to the procedure outlined in Appendix F, Part III of FAR 25.855, "Oil Burner - Burn through Resistance". NR = No Requirement				

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