



## Gilliner™ 1366/1366T Laminate

Nov 2011

### Description

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

### Applications

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Aircraft cargo compartment liner.

### Features

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

### Specifications

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- De Havilland DHMS P1.42 CI B - 1366, 1366T
- Lockheed LAC-C-22-1249 CI 3 - 1366
- Airbus 2550 M1M 0014 01 - 1366
  
- Airbus 2550M1M000703 - 1366T
  
- FAR Part 25, Appendix, F Parts I and III (burn through). - ALL

### Availability

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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

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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 1366/1366T

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	AI M1M 2550 000 800	ft-lb (N-m)	16 (22)	25 (34)	31 (42)
Edge Bearing Strength	ASTM D953	ksi (MPa)	38.8 (267.6)	40.7 (280.7)	37.1 (255.9)
Warp		ksi (MPa)	33.7 (232.4)	40.5 (279.3)	36.3 (250.4)
Fill					
Tedlar Peel	ASTM D1876	in	0	0	0
Warp		in	0	0	0
Fill					
Flexural Note 1	ASTM D790	ksi (MPa)	NR	NR	NR
Strength		msi (GPa)	NR	NR	NR
Modulus					
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	second	0	0	0
Extinguishing Time		inch (mm)	2.5 (63.5)	1.6 (40.6)	1.6 (40.6)
Burn Length		second	0	0	0
Dripping Flame Time					
Flammability - 45 Degree	FAR 25.855	second	0	0	0
Extinguishing Time		second	0	0	0
Afterglow		---	None	None	None
Penetration					
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 1366/1366T**  
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	AI M1M 2550 000 800	ft-lb (N-m)	41 (56)	47 (64)
Edge Bearing Strength	ASTM D953	ksi (MPa)	40.5 (279.3)	47.2 (325.5)
Warp				
Fill		ksi (MPa)	39.5 (272.4)	40.3 (277.9)
Tedlar Peel	ASTM D1876	in	0	0
Warp				
Fill		in	0	0
Flexural Note 1	ASTM D790	ksi (MPa)	28.31 (195.2)	33.82 (233.2)
Strength				
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	second	0	0
Extinguishing Time				
Burn Length				
Dripping Flame Time		inch (mm)	1.4 (35.6)	1.8 (45.7)
		second	0	0
Flammability - 45 Degree	FAR 25.855	second	0	0
Extinguishing Time				
Afterglow				
Penetration		second	0	0
		---	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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