

**Gillfab™ 1367B/1367M Laminate****February 2004****Description**

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Gillfab 1367B is a light weight, high impact resistant, low smoke and toxicity, fiberglass reinforced phenolic laminate. Gillfab 1367M is the product designation for Gillfab 1367B supplied in roll stock.

**Applications**

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Aircraft cargo compartment liner.

**Features**

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- High mechanical strength, puncture resistance and corrosion resistance.
- Offers 20-25% weight savings as compared to 1367/1367A.
- Service temperature range: To 220°F (110°C).
- White Tedlar overlay on face side for surface reflectivity.

**Specifications**

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- Boeing BMS 8-223, Class 4, Grade B, all types
- FAR Part 25 Appendix F Parts I and III (Burn Through)
- ATS 1000.001.

**Availability**

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Thickness: inches (mm)	.011 (.28), .018 (.46), .026 (.66), .035 (.89), .045 (1.14)
Length:	Sheets up to 168" (4,267 mm). Thicknesses up to .026" (.66mm) are available in rolls up to 150' (69.7m).
Width:	Sheet width is 72" (1,828 mm) maximum. Roll stock available up to 60" (1,524 mm) width.
Color:	White on face side, amber on back side.

**Construction**

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Resin: Modified phenolic.  
Reinforcement: Woven glass cloth.  
Surface: 1 mil white Tedlar® overlay.



## Standard Tolerances

Thickness:	+/- .003" (.08 mm), .011" (.28 mm), .026" (.66 mm), .035" (.89 mm) +/- .004 (.10 mm), .045" (1.14 mm) +/- .005 (.13mm)
Length:	+ 0.5" (12.7 mm), - 0"
Width:	+ 0.5" (12.7 mm), - 0"

## Alternative Gill Products

Product Number	Difference
Gillfab 1366	High impact resistant cargo liner qualified to Boeing specification BMS 8-2, Cl 2, Gr A.
Gillfab 1367A	High impact resistant, low smoke and toxicity, cargo liner qualified to Boeing specification BMS 8-223, Cl 2, Gr B..
Gillfab 1367C	Same as 1367A but manufactured in roll stock in lengths up to 150' and up to .030" thick
Gillfab 1076A	General purpose cargo liner qualified to Boeing Specification BMS 8-2, Cl 1, Gr A.

## Typical Properties of Gillfab 1367B

Property	Test Method	Unit	Type 13	Type 20
Weight	BMS8-223	psf, max. (kg/m <sup>2</sup> )	0.106 (0.517)	0.165 (0.805)
Thickness	BMS8-223	Inch (mm)	0.012 (0.305)	0.017 (0.431)
Water Absorption	FTMS 406-7031	%	.909	0.733
Impact	BMS8-223	ft-lbs. (Nm)	8 (10.8)	14 (19)
Drum Peel Note 1 Warp Fill	BMS8-223	in-lb/3in (Nm / 76.2 mm)	N/R N/R N/R N/R	70 (7.91) 55 (6.21)
Edge Bearing Warp Fill	BMS8-223	psi (N/mm <sup>2</sup> ) psi (N/mm <sup>2</sup> )	49,067 (338) 46,067 (318)	51,955 (358) 49,555 (342)
Tedlar Peel Warp Fill	BMS8-223	in (mm) in (mm)	0 0	0 0
Flammability - 60 Second Vertical Self-Extinguishing Time Burn Length Drip Extinguishing Time	BMS 7230	second inch (mm) second	0 2.8 (71.1) None	0 1.8 (45.7) None
Flammability - 45 Degree Self-Extinguishing Time Glow Time Penetration		second second ---	1.8 0 None / None	1.8 0 None / None
Smoke Density	ASTM 662	D <sub>s</sub>	29	51
Oil Burner Note 2	FAR 25.855	---	Pass	Pass

Note 1 - On Type 13, drum peel in the fill direction resulted in fabric tearing and no data could be obtained.

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

NR = No Requirement



Property	Test Method	Unit	Type 30	Type 40	Type 50
Weight	BMS8-223	psf, max. (kg/m <sup>2</sup> )	0.245 (1.196)	0.330 (1.611)	0.470 (2.29)
Thickness	BMS8-223	Inch (mm)	0.026 (0.660)	0.036 (0.914)	.046 (1.168)
Water Absorption	FTMS 406-7031	%	0.367	0.581	0.81
Impact	BMS8-223	ft.-lb. (Nm)	19 (26)	25 (34)	39 (53)
Drum Peel	BMS8-223	in.-lb. (Nm)/3 in (76.2 mm)width	52 (5.88)	59 (6.67)	55 (6.21)
Warp		in.-lb. (Nm)/3 in (76.2 mm)width	62 (7.00)	52 (5.88)	68 (7.68)
Fill					
Edge Bearing	BMS8-223	psi (N/mm <sup>2</sup> )	45,667 (315)	49,124 (339)	44,290 (305)
Warp		psi (N/mm <sup>2</sup> )	42,462 (293)	48,534 (335)	48,385 (334)
Fill					
Tedlar Peel	BMS8-223	in (mm)	0	0	0
Warp		in (mm)	0	0	0
Fill					
Flammability -60 Second	BMS 7230				
Vertical					
Self-Extinguishing Time		second	0	0	1
Burn Length		inch (mm)	3.2 (81.3)	0	1.4 (35.56)
Drip Extinguishing Time		second	None	None	None
Flammability - 45 Degree	DMS 1508				
Self-Extinguishing Time		second	3.18	0	.78
Glow Time		second	0	0	0
Penetration		---	None	None	None
Smoke Density	ASTM 662	D <sub>s</sub>	51	64	44
Oil Burner - Note 2	FAR 25.855	---	Pass	Pass	Pass

Note 1 - Reported only 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".

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M.C. Gill Corporation  
4056 Easy Street  
El Monte, CA 91731-1087 USA  
626-443-4022 info@mcgillcorp.com

M.C. Gill Europe Ltd. - Insoleq  
23 Enterprise Road, Balloo Industrial Estate South  
Bangor Co-Down BT19 7TA, Northern Ireland  
+44 (0) 2891 470073 sales@insoleq.co.uk

[www.mcgillcorp.com](http://www.mcgillcorp.com)

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