

**Gillfab™ 1100 Laminate**

May 1994

Description

Gillfab 1100 and 1100G are rigid, high impact resistant, fiberglass cloth reinforced polyester laminates. Gillfab 1100 has a white Tedlar® overlay; Gillfab 1100G is light green in color.

Applications

Cargo compartment lining in commercial aircraft.

Features

- High flexural strength, puncture resistance and corrosion resistance.
- Service temperature range: -100F to 180F. .

Specifications

- FAR Part 25 Appendix F Parts I and III (burn through)
- McDonnell Douglas DMS 1946 Types 1 (white) and 2 (light green)

Availability

Thickness:	.010", .016", .023, .030", .045", .060", .070", .090" and .120"
Length:	Up to .045" thickness in 150 ft. rolls (1100 only); thicknesses up to 14' length in sheets.
Width:	Up to 72". (60" maximum for rolls)

Construction

Resin: Fire resistant polyester.
Reinforcement: Woven fiberglass cloth
Surface: Matte

Standard Tolerances

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



Alternative Gill Products

Product Number	Difference
Gillfab 1167	Very high impact resistant, low smoke and toxicity cargo liner. Qualified to McDonnell Douglas DMS 2226 Type 1 Class 1.
Gillfab 1367A	High impact resistant, low smoke and toxicity cargo liner. Qualified to McDonnell Douglas DMS 2419 CI 1

Properties of Gillfab 1100

Typical average property values
Reported only in warp direction except as noted

Property	Test Method	Unit	Typical Values	
			English	(Metric)
Weight		psf (kg/m ²)	.60	(293)
Thickness		inch (mm)	.060	(1.52)
Water Absorption, % max	FTMS406-7031	%		.65
Impact	DMS 1946 (Pendulum Impact tester #2)	ft-lb, (n-m)	46	(62)
Edge Bearing Strength	BMS 8-262	ksi (MPa)	36	(248)
Bolted Joint strength, (.030 laminate)	DMS 1946	lbs. (kg)	350	(159)
Flexural Note 1 Strength	FTMS 406-1031	ksi (MPa)	70	(483)
Modulus		msi (MPa)	2.9	(20.0)
Bond Strength	BMS 8-2	lbs. (kg)	800	(363)
Abrasion Resistance	FTMS406-1091	gram	.028	
Flammability - Vertical Extinguishing Time	FAR 25.853b	second		0
Burn Length		inch		1.0
Dripping Flame Time		second		0
Flammability - 45 Degree	FAR 25.855	---		Pass
Oil Burner Note 2	FAR 25.855	---		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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