

**Gillfab™ 4122B Panel**

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Description

Gillfab 4122B is a light weight sandwich panel constructed of woven glass reinforced phenolic facings bonded to Nomex® honeycomb core. Face side features a 2 mil white Tedlar® overlay.

Applications

Typically used for aircraft interior applications such as sidewall applications. Also used in cargo ceiling and bulkheads, galley and ceiling panels.

Features

- All phenolic resin - minimal smoke emission. Good burn-through resistance and high flash point in a fire.
- Flat, corrosion resistant panels with good mechanical properties.

Specifications

- Israel Aircraft 365-25-21-92081
- FAR 25.853a - fire resistance

Construction

Adhesive:	Modified phenolic, low smoke emission.
Core:	Aramid honeycomb.
Facings:	Fiberglass cloth, phenolic resin composite; white Tedlar® overlay – face side.

Availability

Thickness:	Per customer specification, from .110".
Size:	Standard size is 48" x 96". Larger sizes are available on special order.
Facings:	From .01" in .010" multiples. Core: From 1.8 to 5.0 pcf density; 1/8", 3/16", 1/4" cell size.

Standard Tolerances

Thickness:	± .010"
Length:	+0.5", -0"
Width:	+0.5", -0"
Warpage:	<.004 L2/t where L = length (ft.) and t = thickness (in.)



Alternative Gill Products

Product Number	Difference
Gillfab 4022	Higher bond strength and smoke emission (epoxy adhesive).
Gillfab 5155	Kevlar® cloth reinforced facings in place of fiberglass.

Properties of Gillfab 4122B

Based on 0.500" Thick Panel with 0.020" Facings and 3.0 pcf Nominal Nomex Core
Typical Average Property Values

Property	Test Method	Unit	Type .500"
Weight	ASTM C29	lb/sq ft (kg/sq m)	0.540 (2.64)
Thickness	ASTM C366	inch (mm)	0.491 (12.47)
Sandwich Peel	DPS 1.92	in-lb(N-m)/3 in width	32 (3.6)
Long Beam Flexural Ultimate Load Deflection @ 100 lb	DPS 1.92	lb (N) inch (mm)	320 (1423) 0.515 (13.08)
Flatwise Compressive Strength	DPS 1.92	lb/sq in (kPa)	360 (2482)
Flammability - 60 Second Self-Extinguishing Time Burn Length Drip Extinguishing Time	FAR 25.853	second inch (mm) second	0 1.3 (33.0) 0
Smoke Density	DPS 1500	D _s	23
OSU Heat Release Peak Heat Release Rate Total Heat Release	FAR 25.853	kw/sq m kw-min/sq m	26 18
Note 1 - Data above applies to Type A or Type B panel construction.			

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