



Gillfab™ 1394 Laminate

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Description

Gillfab 1394 is a high performance ballistic laminate made from S-2 Glass® roving reinforced phenolic resin.

Applications

Designed for use in a wide range of applications including cockpit doors, bulkheads, armored vehicles and naval vessels. Ideal for applications where fire resistance and smoke emissions are of primary concern.

Features

- Tested to be NIJ III-A compliant by an independent ballistics laboratory at 0.280ins(7.1mm) thickness, using the NIJ 0101.04 test procedure as recommended by the FAA AC 25.795-2.
- Superior flammability properties - meets FAR 25.853 Parts I, IV and V
- Lower cost than aramid reinforced armor.
- Easy to machine
- High mechanical and flammability properties allow material to be utilized as a stand alone door or similar construction, with minimal supporting structure and no encapsulation.

Availability

Thickness:	0.108" (2.7mm) and up, in multiples of .022" (.56mm)
Length:	Up to 144" (3,858 mm)
Width:	Up to 48" (1,219 mm)

Standard Tolerances

Thickness: +/- 10%
Length and Width: + 0.5" (12.7mm) - 0"



Alternative Gill Products

Product Number	Difference
Gillfab 1360A	Woven Kevlar® 29 reinforced phenolic laminate is lighter weight but higher cost.
Gillfab 1360B	Aramid fabric reinforced phenolic laminate is lighter weight and thinner, but higher cost.

Typical Properties of Gillfab 1394 0.280 ins (7.1 mm) thick

Typical Properties	
Mechanical Properties	
Weight, max psf (kg/m ²)	2.73 (13.3)
Thickness, ins. (mm) Tested in warp direction	0.280 (7.1)
Tensile Strength, ksi (megapascal) Tested in warp direction	70 (483)
Tensile Modulus, msi (gigapascal) Tested in warp direction	3.6 (25)
Flexural Strength, ksi (megapascal) Tested in warp direction	26 (179)
Flexural Modulus, msi (gigapascal) Tested in warp direction	4.2 (29)
Flammability	
Smoke Emission, Flaming, per FAR 25, App. F, Part V, D	1
Heat Release, per FAR 25, App. F, Part IV, kW/m ² -kW-min./m ²	18/-2
Flammability, per FAR 25, App. F, Part I Extinguishing time, secs. Drip time, secs. Burn Length, ins. (mm)	0 0 0

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