



## PRODUCT DATA SHEET

# Gillfab® 1042

### DESCRIPTION

Gillfab® 1042 is a heat resistant laminate made from phenolic resin with fiberglass cloth reinforcement with smooth bondable faces intended for both laminate and sandwich construction.

### APPLICATIONS

The laminate is designed for general purpose aircraft interior applications, usually as facing on sandwich panels or for shim stock.

### FEATURES

- Low smoke emission in a fire
- Abrasion resistant
- Smooth, bondable face side for polyvinyl fluoride film overlay
- Can be painted with proper surface treatment
- Service temperature: -150°F to 300°F (-101°C to 149°C)

### AVAILABILITY

Thickness, inch (mm)	0.010 (0.254) and up to 0.750 (19.05), in multiples of 0.005 (0.127)
Length, inch (mm)	Typical 96 (2,438), Maximum 144 (3,658)
Width, inch (mm)	Typical 48 (1,219), Maximum 72 (1,829)



### CONSTRUCTION

**Resin:** Phenolic resin  
**Reinforcement:** Woven fiberglass cloth

### ALTERNATIVE GILL PRODUCTS

TGC Product No.	Difference
Gillfab® 1002	Phenolic/woven fiberglass laminate for high temperature application, service temperature up to 500°F (260°C).
Gillfab® 1342	Phenolic/woven fiberglass laminate. Similar construction with peel ply intended for bonding of sandwich construction.

### SPECIFICATIONS

- McDonnell Douglas DMS 1558L, Ty II
- FAR 25.853 and 25.855. Fire resistance

### HEALTH PRECAUTIONS

This product is safe to use and apply when recommended precautions are followed. Before using this product, read and understand the Safety Data Sheet (SDS), which provides information on health, physical and environmental hazards, handling precautions and first aid recommendations. A SDS is available at <https://www.thegillcorp.com/msds.php>.

For industrial use only. Keep away from children. Additional information can be found at: [www.thegillcorp.com](http://www.thegillcorp.com). For sales and ordering information call 1-626-443-6094.



**PERFORMANCE PROPERTIES, TYPICAL**

The following tests are run in accordance with DMS 1558.

TGC Part Number	1042-060	1042-125
Weight, psf (kg/m <sup>2</sup> )	0.66 (3.22)	0.95 (4.64)
Flexural Strength, Warp/Fill, ksi (Mpa)	74 (510) <sup>1</sup>	91 (627)/73 (503)
After 2 hr boiling	72 (496) <sup>1</sup>	N/A
Flexural Modulus, Warp/Fill, msi (Gpa)	3.2 (22) <sup>1</sup>	4.5 (31)/4.1 (28)
After 2 hr boiling	3.1 (21) <sup>1</sup>	N/A
Tensile Strength, Warp/Fill, ksi (Mpa)	45 (310) <sup>1</sup>	63 (434)/53(365)
After 2 hr boiling	45 (310) <sup>1</sup>	N/A
Tensile Modulus, msi (Gpa)	3.2 (22) <sup>1</sup>	N/A
After 2 hr boiling	3.1 (21) <sup>1</sup>	N/A
Compressive Strength, ksi (Mpa)	45 (310)	N/A
After 2 hr boiling	42 (290)	N/A
Impact, in-lbs (N-m)	45 (5.08)	N/A
Resin Content, %	N/A	29
Barcol Hardness <sup>2</sup>	N/A	79
Smoke Emission, Ds	4	N/A
Flammability	Meets FAR 25.853 and 855 App F Part I	
Water absorption, %	0.25 <sup>3</sup>	N/A
Thermal Expansion, 10 <sup>-5</sup> °C	1.5-3.0 <sup>3</sup>	N/A
Taber Abrasion resistance loss/ 1,000 cycle CS10 wheel, grams (lbs)	0.05 (1.1x10 <sup>-4</sup> )	N/A
Dielectric Strength, Volts/mil	350-500	N/A
Dielectric Constant, cps	5-7	N/A
Dissipation factor, cps	0.04-0.05	N/A

<sup>1</sup>Measure on warp direction

<sup>2</sup>Barcol hardness is a relative hardness measurement without unit

<sup>3</sup>Based on a 0.010" 1042 laminate sample

Figures shown reflect typical values and should not be used as design specifications.