



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. 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 ²) | 0.66 (3.22) | 0.95 (4.64) |
| Flexural Strength, Warp/Fill, ksi (Mpa) | 74 (510) ¹ | 91 (627)/73 (503) |
| After 2 hr boiling | 72 (496) ¹ | N/A |
| Flexural Modulus, Warp/Fill, msi (Gpa) | 3.2 (22) ¹ | 4.5 (31)/4.1 (28) |
| After 2 hr boiling | 3.1 (21) ¹ | N/A |
| Tensile Strength, Warp/Fill, ksi (Mpa) | 45 (310) ¹ | 63 (434)/53(365) |
| After 2 hr boiling | 45 (310) ¹ | N/A |
| Tensile Modulus, msi (Gpa) | 3.2 (22) ¹ | N/A |
| After 2 hr boiling | 3.1 (21) ¹ | 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 ² | N/A | 79 |
| Smoke Emission, Ds | 4 | N/A |
| Flammability | Meets FAR 25.853 and 855 App F Part I | |
| Water absorption, % | 0.25 ³ | N/A |
| Thermal Expansion, 10 ⁻⁵ °C | 1.5-3.0 ³ | N/A |
| Taber Abrasion resistance loss/ 1,000 cycle CS10 wheel, grams (lbs) | 0.05 (1.1x10 ⁻⁴) | 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 |

¹Measure on warp direction

²Barcol hardness is a relative hardness measurement without unit

³Based on a 0.010" 1042 laminate sample

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