



Gilliner™ 1066 Laminate

August 1996

Description

Gilliner 1066 is a general purpose, fiberglass cloth reinforced polyester laminate.

Applications

Aircraft cargo compartment liner.
LD-3 container walls.

Features

- Good impact, puncture and corrosion resistance.
- Service temperature: To 180°F.

Availability

Thickness: .010", .016", .023", .030", .045", .060", .075" and .090".
Length: Sheets up to 14'. Available in rolls up to 60" wide by 150' or longer in thickness up to .060".
Width: 36", 48", 60", or 64". (Roll stock: 60" max. width.)
Color: White, unless otherwise specified.

Construction

Resin: Fire resistant polyester.
Reinforcement: Proprietary fiberglass cloth

Standard Tolerances

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



Alternative Gill Products

| Product Number | Difference |
|----------------|--|
| Gilliner 1066R | Roll stock in lengths up to 150 linear feet long and in thickness of .045" and less |
| Gilliner 1066T | Gilliner 1066 with a 1 mil white Tedlar film bonded on one surface for decorative or exterior service. |
| Gilliner 1076 | Lower priced, similar to 1066. |
| Gilliner 1366T | High puncture resistant version of Gilliner 1066. |

Properties of Gilliner 1066

Based on .060" thick laminate (Unless noted)

| Property | Test Method | Unit | Type 13 | Type 16 | Type 23 |
|--|---------------|-------------------------------|------------------------------|------------------------------|------------------------------|
| Weight | ASTM 29 | lb/sq ft (kg/sq m) | 0.122 (0.60) | 0.186 (0.91) | 0.215 (1.05) |
| Thickness | ASTM C366 | inch (mm) | 0.012 (0.30) | 0.018 (0.46) | 0.020 (0.51) |
| Water Absorption | FTMS 406-7031 | % | 1.49 | 1.31 | 1.25 |
| Impact Note 1 | DMS 1946 | ft-lb (N-m) | 6 (8.1) | 9 (12.2) | 11 (14.9) |
| Edge Bearing Strength Warp Fill | BMS 8-262 | ksi (MPa) ksi (MPa) | 28.4 (195.9) 32.2 (222.1) | 39.4 (271.7) 33.7 (232.4) | 28.1 (193.8) 24.5 (169.0) |
| Bolted Joint Strength Warp Fill | DMS 1946 | lb (N) lb (N) | 258 (1,148) 240 (1,068) | 169 (752) 179 (796) | 401 (1,784) 365 (1,624) |
| Flammability - 60 Second Vertical Self-Extinguishing Time Burn Length Drip Extinguishing Time | FAR 25.853 | second inch (mm) second | 0 1.1 (27.9) 0 | 0 0.9 (22.8) 0 | 0 0.5 (12.7) 0 |
| Flammability - 45 Degree Self-Extinguishing Time Glow Time Penetration | FAR 25.853 | second second --- | 0 0 None | 0 0 None | 0 0 None |
| Oil Burner Note 2 | FAR 25.855 | --- | Pass | Pass | Pass |
| <p>Note 1 - Determined using Gardner Model 11K3 impactor and 2 lb dart. Note 2 - Test performed by U. S. Testing in accordance with the procedure outlined in Appendix F, Part III of FAR 25.855, "Oil Burner - Burn through Resistance".</p> | | | | | |



| Property | Test Method | Unit | Type 30 | Type 45 | Type 60 |
|--|---------------|--------------------|--------------|--------------|--------------|
| Weight | ASTM C29 | lb/sq ft (kg/sq m) | 0.290 (1.42) | 0.439 (2.14) | 0.564 (2.75) |
| Thickness | ASTM C366 | inch (mm) | 0.031 (0.79) | 0.045 (1.14) | 0.062 (1.57) |
| Water Absorption | FTMS 406-7031 | % | 1.58 | 2.85 | 2.11 |
| Impact Note 1 | DMS 1946 | ft-lb (N-m) | 17 (23.1) | 25 (33.9) | 35 (47.5) |
| Edge Bearing Strength | BMS 8-262 | | | | |
| Warp | | ksi (MPa) | 30.3 (209.0) | 32.1 (221.4) | 37.7 (260) |
| Fill | | ksi (MPa) | 31.6 (217.9) | 61.1 (421.4) | 42.9 (296.9) |
| Bolted Joint | DMS 1946 | | | | |
| Warp | | lb (N) | 239 (1,063) | 453 (2,015) | 653 (2,905) |
| Fill | | lb (N) | 274 (1,219) | 569 (2,531) | 409 (1,819) |
| Flammability - 60 Second Vertical | FAR 25.853 | | | | |
| Self-Extinguishing Time | | second | 0 | 0 | 0 |
| Burn Length | | inch (mm) | 0.1 (2.54) | 0.2 (5.08) | 0.1 (2.54) |
| Drip Extinguishing Time | | second | 0 | 0 | 0 |
| Flammability - 45 Degree | FAR 25.853 | | | | |
| Self Extinguishing Time | | | 0 | 0 | 0 |
| Glow Time | | | 0 | 0 | 0 |
| Penetration | | | None | None | None |
| Oil Burner Note 2 | | --- | Pass | Pass | Pass |
| Note 1 - Determined using Gardner Model 11K3 impactor and 2 lb dart. | | | | | |
| Note 2 - Test performed by U. S. Testing in accordance with the procedure outlined in Appendix F, Part III of FAR 25.855, "Oil Burner - Burn through Resistance" | | | | | |

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M.C. Gill Corporation
4056 Easy Street
El Monte, CA 91731-1087 USA
626-443-4022 info@mcgillcorp.com

M.C. Gill Europe Ltd. - Insoleq
23 Enterprise Road, Balloo Industrial Estate South
Bangor Co-Down BT19 7TA, Northern Ireland
+44 (0) 2891 470073 sales@insoleq.co.uk

www.mcgillcorp.com

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