



PRODUCT DATA SHEET

Gilliner® 1366/1366A/1366T/1366C/1366F

DESCRIPTION

Gilliner® 1366 is a high impact resistant grade liner constructed of woven E and S-glass cloth with a polyester resin system to optimize strength, weight and cost. Gilliner® 1366 offers superior mechanical properties and higher strength-to-weight ratio compared to all E glass constructions. 1 ml white Tedlar® overlay on the face side can be optionally added. Gilliner® 1366 and all types can be supplied in sheet or roll stocks for thickness under 0.050".



APPLICATIONS

Aircraft cargo compartment liner for general purpose use.

FEATURES

- High impact strength
- Impact resistant
- Abrasion resistant
- Corrosion resistant
- Service temperature up to 180°F (80°C)

AVAILABILITY

|                         | Gilliner® 1366 and all types<br>(Sheet form)           | Gilliner® 1366 and all types<br>(Roll form)          |
|-------------------------|--|--|
| Thickness,<br>inch (mm) | 0.011 (0.28)   | 0.011 (0.28)   |
|                         | 0.020 (0.51)   | 0.020 (0.51)   |
|                         | 0.030 (0.76)   | 0.030 (0.76)   |
|                         | 0.040 (1.02)   | 0.040 (1.02)   |
|                         | 0.045 (1.14)   | 0.045 (1.14)   |
|                         | 0.050 (1.27)   | 0.050 (1.27)   |
|                         | 0.060 (1.52)   |  |
|                         | 0.070 (1.78)   |  |
|                         | 0.080 (2.03)   |  |
| 0.090 (2.29)            |  |  |
| Length                  | Typical 144 in (3,658 mm)<br>Maximum 168 in (4,267 mm) | Typical 150 LF (45,720 mm)                           |
| Width                   | Typical 48 in (1,219 mm)<br>Maximum 72 in (1,829 mm)   | Typical 48 in (1,219 mm)<br>Maximum 60 in (1,524 mm) |



CONSTRUCTION

- Facings Reinforcement:** Woven fiberglass  
**Facings Resin System:** Fire resistant polyester  
**Surface:** Glossy  
**Color:** Natural



**SPECIFICATIONS**

Gilliner® 1366/1366T

- Boeing specification BMS 8-2 Cl 2 Gr A - 1366
- De Havilland DHMS P1.42 Cl B - 1366, 1366T
- Lockheed LAC-C-22-1249 Cl 3 - 1366
- Airbus 2550 M1M 0014 01 - 1366
- 1366T - Boeing specification BMS 8-2 Cl 2 Gr B - 1366T
- Airbus 2550M1M000703 - 1366T
- FAR Part 25, Appendix, F Parts I and III (burn through) - ALL

Gilliner® 1366C/1366F

- Boeing specification BMS 8-2 Cl 2 Gr A - 1366C
- 1366T - Boeing specification BMS 8-2 Cl 2 Gr B - 1366F
- FAR Part 25, Appendix, F Parts I and III (burn through). - ALL

**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 BMS 8-2 specification requirements.

| TGC Part Number                    |      | 1366-011                                       | 1366-020     | 1366-030      | 1366-045      | 1366-070      |
|------------------------------------|------|--|--------------|---------------|---------------|---------------|
| Weight, psf (kg/m <sup>2</sup> )   |      | 0.12 (0.59)                                    | 0.18 (0.88)  | 0.30 (1.46)   | 0.43 (2.10)   | 0.71 (3.47)   |
| Tensile Strength, ksi (MPa)        | Warp | 66 (455)                                       | 68 (469)     | 61 (421)      | 57 (393)      | 63 (434)      |
|                                    | Fill | 66 (455)                                       | 56 (386)     | 51 (352)      | 53 (365)      | 60 (414)      |
| Water Absorption, %                |      | 0.3  | 0.8          | 0.8           | 0.5           | 0.6           |
| Bond Strength, lbs (N)             |      | 671 (2,985)                                    | 848 (3,772)  | 1,018 (4,528) | 1,003 (4,462) | 982 (4,368)   |
| Abrasion, grams (oz)               |      | 0.03 (0.0010)                                  | 0.06 (0.002) | 0.03 (0.0010) | 0.02 (0.0007) | 0.01 (0.0004) |
| Impact Strength, ft-lbs (N-m)      |      | 13 (18)  | 16 (22)      | 20 (27)       | 32 (43)       | 47 (64)       |
| Edge Bearing Strength, lbs (N)     | Warp | 47 (209)                                       | 53 (236)     | 45 (200)      | 51 (227)      | 47 (209)      |
|                                    | Fill | 44 (196)                                       | 49 (218)     | 44 (196)      | 46 (205)      | 43 (191)      |
| Flexural Strength, ksi (MPa)       | Warp | N/A  | N/A          | N/A           | 32 (221)      | 35 (241)      |
|                                    | Fill | N/A  | N/A          | N/A           | 30 (207)      | 32 (221)      |
| Flexural Modulus, msi (GPa)        | Warp | N/A  | N/A          | N/A           | 2.9 (20)      | 3.4 (23)      |
|                                    | Fill | N/A  | N/A          | N/A           | 2.5 (17)      | 3.3 (23)      |
| Flammability                       |      | Meets FAR 25.853 & 855 Appendix F Part I & III |              |               |               |               |
| Tedlar® Peel Separation, inch (mm) |      | No Tedlar® Peel Separation                     |              |               |               |               |

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

All recommendations, statements, values and technical data herein are based on tests The Gill Corporation believes to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. Users shall rely on their own information and tests to determine suitability of the product for the intended use and assume all risks and liability resulting from their use of the product. The Gill Corporation's sole responsibility shall be to replace that portion of the product that proves to be defective. The Gill Corporation will not be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements not contained in a written agreement signed by an officer of The Gill Corporation shall not be binding upon The Gill Corporation. Gilliner® is a registered trademark of The Gill Corporation.