

**PRODUCT DATA SHEET****Gilliner® 1076D****DESCRIPTION**

Gilliner® 1076D is a high wear resistant Grade liner constructed from woven E-glass Cloth with a polyester resin system introduced specifically for use in the B737 lower sidewall. This product features resin rich surfaces to address wear through over frame sections and attach points that are associated with repetitive bulk cargo loading.

**APPLICATIONS**

Cargo liners for cargo compartment, bulkhead facing for aircraft. Designed for lower sidewalls where in-service conditions may result in wear through over frame sections, impact damage and/or fastener hole tear out at attach points.

**FEATURES**

- High abrasion and wear resistance
- Superior strength to weight ratio
- Fire resistant
- Superior impact strength
- Service temperature to 180°F (82°C)

**AVAILABILITY**

|                      |                                                                                                     |
|----------------------|-----------------------------------------------------------------------------------------------------|
| Thickness, inch (mm) | 0.020 (0.51) and 0.045 (1.14)                                                                       |
| Length               | Maximum 144 in (3,658 mm) in sheet form<br>Maximum 150 feet (45,720 mm) in roll form                |
| Width, inch (mm)     | Typical 48 (1,219), Maximum 60 (1,524) for roll<br>Typical 48 (1,219), Maximum 72 (1,829) for sheet |
| Color                | Natural                                                                                             |

**CONSTRUCTION**

|                       |                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------|
| <b>Resin:</b>         | Polyester                                                                                    |
| <b>Reinforcement:</b> | Woven E-glass fiber cloth<br>Non-woven adhesive carrier for high wear resistant applications |
| <b>Surface:</b>       | Glossy                                                                                       |

**SPECIFICATIONS**

- BMS 8-2, Class 3, Grade A
- FAR Part 25 Appendix F Parts I and III (burn through)

**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                  | 1076D Type 20                                                  | 1076D Type 45 |
|----------------------------------|----------------------------------------------------------------|---------------|
| Thickness, in (mm)               | 0.020 (0.51)                                                   | 0.045 (1.14)  |
| Weight, psf (kg/m <sup>2</sup> ) | 0.10 (0.49)                                                    | 0.47 (2.29)   |
| Tensile Strength                 |                                                                |               |
| Warp direction, ksi (mpa)        | 73 (503)                                                       | 73 (503)      |
| Fill direction, ksi (mpa)        | 57 (393)                                                       | 66 (455)      |
| Flexural Strength                |                                                                |               |
| Warp direction, ksi (mpa)        | N/A                                                            | 46 (317)      |
| Fill direction, ksi (mpa)        | N/A                                                            | 44 (303)      |
| Flexural Modulus                 |                                                                |               |
| Warp direction, ksi (mpa)        | N/A                                                            | 2.6 (18.0)    |
| Fill direction, ksi (mpa)        | N/A                                                            | 3.0 (21.0)    |
| Water Absorption, %              | 0.84                                                           | 0.40          |
| Bond Strength, lbs (N)           | 848 (3,772)                                                    | 918 (4,083)   |
| Impact, ft-lbs (N-m)             | 11 (15)                                                        | 23 (31)       |
| Edge Bearing Strength            |                                                                |               |
| Warp direction, ksi (mpa)        | 50 (345)                                                       | 38 (262)      |
| Fill direction, ksi (mpa)        | 43 (296)                                                       | 35 (241)      |
| Flammability                     | Meets requirements of FAR 25.853 & 855 Appendix F Part I & III |               |

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

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