



PRODUCT DATA SHEET

Gilliner® 1566D

DESCRIPTION

Gilliner® 1566D is a high wear resistant liner constructed from woven E-glass Cloth with a modified vinyl ester 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

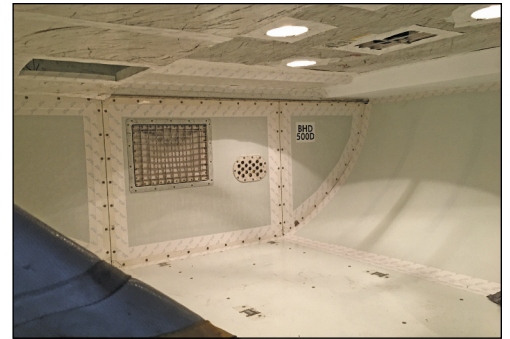
Cargo liners for cargo compartment, bulkhead facing for aircraft. Designed for lower sidewalls where in-service conditions may result in wear through over frame sections, impact damage and/or fastener hole tear out at attach points.

FEATURES

- High abrasion and wear resistance
- Corrosion resistant
- Fire resistant
- Good impact strength

AVAILABILITY

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



CONSTRUCTION

- Resin:** Modified vinyl ester
Reinforcement: Woven E-glass fiber cloth
Surface: Non-woven carrier for high wear resistant applications

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. For sales and ordering information call 1-626-443-6094.



PERFORMANCE PROPERTIES, TYPICAL

TGC Part Number		1566D020	1566D045
Thickness, in (mm)		0.020 (0.51)	0.045 (1.14)
Weight, psf (kg/m ²)		0.21 (1.03)	0.50 (2.44)
Tensile Strength ¹ , ksi (MPa)	Warp	>50 (340)	
	Fill		
Flexural Strength ² , ksi (MPa)	Warp	N/A	≥ 40 (280)
	Fill		
Flexural Tangent Modulus ² , Msi (GPa)	Warp	N/A	≥ 2.0 (14)
	Fill		
Water Absorption ³ , % Increase		< 2.0	
Bond Strength ⁴ , lbf (N)	Warp	750 (3300)	
Impact Strength ⁵ , ft-lbf (N-m)		12 (16)	22 (30)
Edge Bearing Strength ⁶ , ksi (MPa)	Warp	≥ 35 (240)	
	Fill		
Flammability		Meets requirements of FAR 25.853 & 855 Appendix F Part I & III	

Table shown reflects typical values and should not be used as design specifications.

¹ Tensile Strength was tested and calculated per ASTM D638.

² Flexural Strength and Modulus were tested and calculated per ASTM D790.

³ Water Absorption was tested and calculated per ASTM D570.

⁴ Bond Strength was tested and calculated per ASTM D5868 using modified specimen preparation and test speed.

⁵ Impact Strength was tested calculated per ASTM D5420 using a modified dart and specimen test frame.

⁶ Edge Bearing Strength was calculated per ASTM D953 using a modified tension loading fixture.

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.