



Gilliner® 1366/1366T

DESCRIPTION

Gilliner® 1366 and 1366T are high impact resistant grade liners constructed of woven E- and S-glass cloth with a polyester resin system to optimize strength, weight and cost. This product offers superior mechanical properties and higher strength-to-weight ratio compared to all E glass constructions. 1 mil. white polyvinyl fluoride film overlay on the face side is included for Gilliner® 1366T.

APPLICATIONS

Aircraft cargo compartment liner for general purpose use.

FEATURES

- High impact strength
- Abrasion resistant
- Corrosion resistant
- Fire resistant

AVAILABILITY

	Sheet Form		Roll Form
Thickness, inch (mm)	0.011 (0.28)	0.060 (1.52)	0.011 (0.28)
	0.020 (0.51)	0.070 (1.78)	0.020 (0.51)
	0.030 (0.76)	0.090 (2.29)	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)
Length	Typical 144 inch (3,658 mm) Maximum 168 inch (4,267 mm)		Typical 150 feet (45,720 mm)
Width	Typical 48 inch (1,219 mm) Maximum 72 inch (1,829 mm)		Typical 48 inch (1,219 mm) Maximum 60 inch (1,524 mm)
Color	Natural or White		



CONSTRUCTION

Resin: Polyester
Reinforcement: Woven E- and S-glass fiber cloth
Surface: 1 mil. white polyvinyl fluoride film overlay (for 1366T)

SPECIFICATIONS

- DHMS P1.42, Class B Grade 1 and Grade 2
- 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		1366-011	1366-020	1366-030	1366-040	1366-045	1366-070
Thickness, inch (mm)		0.011 (0.28)	0.020 (0.51)	0.030 (0.76)	0.040 (1.02)	0.045 (1.14)	0.070 (1.78)
Weight, psf (kg/m ²)		0.12 (0.59)	0.18 (0.88)	0.30 (1.46)	0.38 (1.86)	0.43 (2.10)	0.71 (3.47)
Tensile Strength ¹ , ksi (MPa)	Warp	66 (455)	68 (469)	61 (421)	95 (655)	57 (393)	63 (434)
	Fill		56 (386)	51 (352)	79 (545)	53 (365)	60 (414)
Water Absorption ² , % Increase		1.0					
Abrasion Resistance ³ , g/1000 cycles		0.1					
Impact Strength ⁴ , ft-lb (N-m)		13 (18)	16 (22)	20 (27)	25 (34)	32 (43)	47 (64)
Edge Bearing Strength ⁵ , ksi (MPa)	Warp	45 (200)					
	Fill						
Flexural Strength ⁶ , ksi (MPa)	Warp	N/A			56 (386)	32 (221)	35 (241)
	Fill				53 (365)	30 (207)	32 (221)
Flexural Tangent Modulus ⁶ , Msi (GPa)	Warp	N/A			3.0 (21)	2.9 (20)	3.4 (23)
	Fill				2.2 (15)	2.5 (17)	
Flammability		Meets 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 Water Absorption was tested and calculated per ASTM D570.

³ Abrasion resistance was tested per ASTM D3389 with CS-10 Wheel, 500 grams of weight, and minor modifications to specimen preparation.

⁴ Impact Strength was tested calculated per ASTM D5420 using a modified dart and specimen test frame.

⁵ Edge Bearing Strength was calculated per ASTM D953 using a modified tension loading fixture.

⁶ Flexural Strength and Modulus were tested and calculated per ASTM D790.

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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. Gillfab® is a registered trademark of The Gill Corporation.