THE GILL CORPORATION

PRODUCT DATA SHEET

Gilliner® 1366B/1366E

DESCRIPTION

Gilliner® 1366B and 1366E 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® 1366E.

APPLICATIONS

Aircraft cargo compartment liner for general purpose use.

FEATURES

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

AVAILABILITY

Thickness, inch (mm)	0.011 (0.28) 0.020 (0.51) 0.030 (0.76) 0.040 (1.02) 0.045 (1.14)	0.050 (1.27) 0.060 (1.52) 0.070 (1.78) 0.090 (2.29)
Length	Maximum 168 inch (4,267 mm) in sheet form Typical 150 feet (45,720 mm) in roll form	
Width, inch (mm)	Typical 48 (1,219), Maximum 72 (1,829)	
Color	Natural or White	

CONSTRUCTION

Resin: Polyester

Reinforcement: Woven E- and S-glass fiber cloth

Surface: 1 mil. white polyvinyl fluoride film overlay (for 1366E)

SPECIFICATIONS

- 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.

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Gilliner® 1366B/1366E
Product Data Sheet

PERFORMANCE PROPERTIES, TYPICAL

The following tests are run in accordance with BMS 8-2 specification requirements.

TGC Part Number		1366B011	1366B020	1366B030	1366B045	1366B070
Thickness, inch (mm)		0.011 (0.28)	0.020 (0.51)	0.030 (0.76)	0.045 (1.14)	0.070 (1.78)
Maximum Weight, psf (kg/m^2)		0.13 (0.63)	0.21 (1.03)	0.32 (1.56)	0.50 (2.44)	0.74 (3.61)
Tensile Strength[1], ksi (MPa)	Warp	> 50 (340)				
	Fill					
Flexural Strength[2], ksi (MPa)	Warp	N/A			≥ 30 (210)	
	Fill					
Flexural Tangent Modulus[2], Msi (GPa)	Warp	N/A			≥ 2.5 (17)	
	Fill					
Water Absorption[3], % Increase		< 2.0				
Bond Strength - Warp[4], lbf (N)		≥ 500 (2200)				
Abrasion Resistance[5], g/1000 cycles		< 0.17				
Impact Strength[6], ft-lb (N-m)		13 (18)	16 (22)	20 (27)	32 (43)	47 (64)
Edge Bearing Strength[7], ksi (MPa)	Warp	≥ 40 (270)				
	Fill					
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]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]Abrasion resistance was tested per ASTM D3389 with CS-10 Wheel, 500 grams of weight, and minor modifications to specimen preparation.
[6]Impact Strength was tested calculated per ASTM D5420 using a modified dart and specimen test frame.
[7]Edge Bearing Strength was calculated per ASTM D953 using a modified tension loading fixture.

Updated: 06/08/21