

## Bedford Plastics Glass Reinforced Polyester Flat Sheet 1/8"

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Polyester, TS , Thermoset Polyester Glass SMC

### Material Notes:

Pultrusion results in the production and supply of one of the worlds strongest and most durable products available today. The pultruded products feature: High Strength Corrosion Resistant to many chemicals Light Weight- Weighs nearly 80% less than a steel profile of similar dimension Electrically Non-Conductive Non-Metallic Lower Life Cycle Cost Non-Leaching. Environmentally Friendly Dimensional Stability Information provided by Bedford Plastics.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Bedford-Plastics-Glass-Reinforced-Polyester-Flat-Sheet-18.php](http://www.lookpolymers.com/polymer_Bedford-Plastics-Glass-Reinforced-Polyester-Flat-Sheet-18.php)

Physical Properties	Metric	English	Comments
Density	1.72 - 1.94 g/cc	0.0620 - 0.0700 lb/in <sup>3</sup>	ASTM D792
Water Absorption	<= 0.60 %	<= 0.60 %	24 hrs; ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	40	40	ASTM D2583
Tensile Strength, Ultimate	51.7 MPa	7500 psi	Crosswise; ASTM D638
	165 MPa	24000 psi	Lengthwise; ASTM D638
Tensile Modulus	6.89 GPa	1000 ksi	Crosswise; ASTM D638
	13.8 GPa	2000 ksi	Lengthwise; ASTM D638
Flexural Strength	103 MPa	15000 psi	Crosswise; ASTM D790
	241 MPa	35000 psi	Lengthwise; ASTM D790
Flexural Modulus	6.21 GPa	900 ksi	Crosswise; ASTM D790
	11.0 GPa	1600 ksi	Lengthwise; ASTM D790
Compressive Strength	107 MPa	15500 psi	Crosswise; ASTM D635
	165 MPa	24000 psi	Lengthwise; ASTM D635
Compressive Modulus	6.89 GPa	1000 ksi	Crosswise; ASTM D635
	12.4 GPa	1800 ksi	Lengthwise; ASTM D635
Ultimate Bearing Strength	221 MPa	32000 psi	Lengthwise; ASTM D953
Shear Strength	41.4 MPa	6000 psi	Perpendicular Shear Stress, Lengthwise; ASTM D3946
	41.4 MPa	6000 psi	Perpendicular Shear Stress,

Mechanical Properties	Metric	English	Crosswise: ASTM D3946 Comments
Izod Impact, Notched	2.67 J/cm	5.00 ft-lb/in	Crosswise; ASTM D256
	9.88 J/cm	18.5 ft-lb/in	Lengthwise; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	8.00 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ @Temperature 20.0 $^{\circ}\text{C}$	4.44 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ @Temperature 68.0 $^{\circ}\text{F}$	Lengthwise; ASTM D696

Electrical Properties	Metric	English	Comments
Dielectric Strength	1.38 kV/mm	35.0 kV/in	Lengthwise; ASTM D149
	7.87 kV/mm	200 kV/in	Perpendicular to Laminate Face; ASTM D149
Arc Resistance	120 sec	120 sec	Lengthwise; ASTM D495

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China