

## Glastic Laminates/Shapes HIR Grade HIR Fiberglass-Reinforced Polyester Rod

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

### Material Notes:

Data provided by Glastic Corporation. A continuous-filament fiberglass-roving provides superior strength. Highest physical properties of GLASROD series.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Glastic-LaminatesShapes-HIR-Grade-HIR-Fiberglass-Reinforced-Polyester-Rod.php](http://www.lookpolymers.com/polymer_Glastic-LaminatesShapes-HIR-Grade-HIR-Fiberglass-Reinforced-Polyester-Rod.php)

Physical Properties	Metric	English	Comments
Density	1.90 g/cc	0.0686 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.10 %	0.10 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	621 MPa	90100 psi	ASTM D638
Tensile Modulus	21.0 GPa	3050 ksi	ASTM D638
Flexural Strength	690 MPa	100000 psi	ASTM D790
Flexural Modulus	28.0 GPa	4060 ksi	ASTM D790
Compressive Strength	110 MPa	16000 psi	Transverse; ASTM D695
	414 MPa	60000 psi	Axial; ASTM D695
Shear Strength	24.0 MPa	3480 psi	In-plane. ASTM D3914
Izod Impact, Notched	21.4 J/cm	40.1 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	9.00 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	5.00 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	ASTM D696
Thermal Conductivity	0.290 W/m-K	2.01 BTU-in/hr-ft $\text{Å}^2$ - $\text{Å}^\circ\text{F}$	ASTM C177
Maximum Service Temperature, Air	200 $\text{Å}^\circ\text{C}$	392 $\text{Å}^\circ\text{F}$	
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	Insulation Resistance, ASTM D257

<b>Electrical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	3.00 kV/mm	76.2 kV/in	1 in. axial in oil; ASTM D149
Arc Resistance	150 sec	150 sec	ASTM D495

## Contact Songhan Plastic Technology Co.,Ltd.

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