

Glastic Laminates/Shapes SG-200 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. Excellent thermal endurance - used to replace silicone rod.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Glastic-LaminatesShapes-SG-200-Fiberglass-Reinforced-Polyester-Rod.php

Physical Properties	Metric	English	Comments
Density	1.85 g/cc	0.0668 lb/in ³	ASTM D792
Water Absorption	0.15 %	0.15 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	483 MPa	70100 psi	ASTM D638
Tensile Modulus	14.0 GPa	2030 ksi	ASTM D638
Flexural Strength	552 MPa	80100 psi	ASTM D790
Flexural Modulus	21.0 GPa	3050 ksi	ASTM D790
Compressive Strength	97.0 MPa	14100 psi	Transverse; ASTM D695
	345 MPa	50000 psi	Axial; ASTM D695
Shear Strength	21.0 MPa	3050 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	7.00 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	3.89 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	ASTM D696
Thermal Conductivity	0.290 W/m-K	2.01 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	ASTM C177
Maximum Service Temperature, Air	210 $\text{Å}^\circ\text{C}$	410 $\text{Å}^\circ\text{F}$	
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Surface Resistance	6.40e+13 ohm	6.40e+13 ohm	Insulation Resistance, ASTM D257

Electrical Properties	^{5.0} Metric	^{5.0} English	Comments
	@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

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