

Premix Premi-Glas® 1100-15 Fiberglass Reinforced Thermoset BMC

Category : Polymer , Thermoset , Filled/Reinforced Thermoset

Material Notes:

Premi-Glas® 1100-15 is a fiberglass reinforced thermoset bulk molding compound for general purpose applications requiring thermal stability and stiffness. Key features and benefits are: Excellent stiffness to weight ratio, non-melting Good dimensional stability, including excellent thermal resistance Pigmentable for molded-in color; best appearance with mold texture Excellent property retention in cold and hot environments Good corrosion resistance except in acid environments. Designed for compression or injection molding in matched metal die molds. Information provided by Premix.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Premi-Glas-1100-15-Fiberglass-Reinforced-Thermoset-BMC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.70 - 1.85 g/cc	1.70 - 1.85 g/cc	
Linear Mold Shrinkage	0.0015 - 0.0035 cm/cm	0.0015 - 0.0035 in/in	Polymerization Shrinkage

Mechanical Properties	Metric	English	Comments
Tensile Strength	31.0 MPa	4500 psi	ASTM D638
Tensile Modulus	14.0 GPa	2030 ksi	ASTM D638
Flexural Strength	95.0 MPa	13800 psi	ASTM D790
Flexural Modulus	9.70 GPa	1410 ksi	ASTM D790
Poissons Ratio	0.30	0.30	
Shear Modulus	5.40 GPa	783 ksi	Calculated
Izod Impact, Notched	3.70 J/cm	6.93 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.80 J/cm	8.99 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.0 $\mu\text{m}/\text{m}^{\circ}\text{C}$	19.4 $\mu\text{in}/\text{in}^{\circ}\text{F}$	Z Direction
CTE, linear, Transverse to Flow	25.0 $\mu\text{m}/\text{m}^{\circ}\text{C}$	13.9 $\mu\text{in}/\text{in}^{\circ}\text{F}$	XY Direction
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft ² -°F	

Processing Properties	Metric	English	Comments
Processing Temperature	150 °C	302 °F	Compression or Injection Molding
Clamp Pressure	3.45 - 6.89 MPa	500 - 1000 psi	Molding Pressure

Processing Properties

Metric

English

Comments

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