

Premix Premi-Glas® 3101-10 Fiberglass Reinforced Thermoset BMC

Category : Polymer , Thermoset , Filled/Reinforced Thermoset

Material Notes:

Premi-Glas® 3101-10 is a fiberglass reinforced thermoset bulk molding compound for electrical circuit breakers, switchgear and other applications where fire retardance is required. Key features and benefits are: Non-Halogen FR technology for regulatory compliance Excellent dimensional stability and electrical properties Recognized by Underwriter's Laboratories, File #E42524 Outstanding flow and fill in compression, transfer and injection molding. Pigmentable for molded-in color, best appearance with mold texture Designed for compression, transfer 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-3101-10-Fiberglass-Reinforced-Thermoset-BMC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.80 - 1.95 g/cc	1.80 - 1.95 g/cc	
Linear Mold Shrinkage	0.0015 - 0.0030 cm/cm	0.0015 - 0.0030 in/in	Polymerization Shrinkage

Mechanical Properties	Metric	English	Comments
Tensile Strength	33.0 MPa	4790 psi	ASTM D638
Tensile Modulus	12.0 GPa	1740 ksi	ASTM D638
Flexural Strength	79.0 MPa	11500 psi	ASTM D790
Flexural Modulus	8.30 GPa	1200 ksi	ASTM D790
Poissons Ratio	0.30	0.30	
Shear Modulus	4.60 GPa	667 ksi	Calculated
Izod Impact, Notched	1.85 J/cm	3.47 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.20 J/cm	5.99 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	19.4 $\mu\text{in}/\text{in}\cdot\text{°F}$	Z Direction
CTE, linear, Transverse to Flow	25.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	13.9 $\mu\text{in}/\text{in}\cdot\text{°F}$	XY Direction
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft ² -°F	
Deflection Temperature at 1.8 MPa (264 psi)	$\geq 200\text{ °C}$	$\geq 392\text{ °F}$	ASTM D792
UL RTI, Electrical	130 °C	266 °F	UL 746C
UL RTI, Mechanical with Impact	130 °C	266 °F	UL 746C

Thermal Properties	Metric	English	Comments
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	5VB	5VB	
	@Thickness 2.60 mm	@Thickness 0.102 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	18.0 kV/mm	457 kV/in	ASTM D149
Arc Resistance	220 sec	220 sec	ASTM D495

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

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