

Premix Premi-Glas® 2103-22 CR-SX-HT Fiberglass Reinforced Thermoset BMC

Category : Polymer , Thermoset , Filled/Reinforced Thermoset

Material Notes:

Premi-Glas® 2103-22 CR-SX-HT is a fiberglass reinforced thermoset bulk molding compound for electrical and flame retardant applications. Key features and benefits are: Enhanced product for higher UL long term operating temperature Non-Halogen FR technology for regulatory compliance Pigmentable for molded-in color; best appearance with mold texture Recognized by Underwriter's Laboratories, File #E42524 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-2103-22-CR-SX-HT-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	38.0 MPa	5510 psi	ASTM D638
Tensile Modulus	12.0 GPa	1740 ksi	ASTM D638
Flexural Strength	124 MPa	18000 psi	ASTM D790
Flexural Modulus	10.0 GPa	1450 ksi	ASTM D790
Poissons Ratio	0.30	0.30	
Shear Modulus	4.60 GPa	667 ksi	Calculated
Izod Impact, Notched	4.25 J/cm	7.96 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.85 J/cm	11.0 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	
UL RTI, Electrical	155 °C	311 °F	UL 746C
UL RTI, Mechanical with Impact	160 °C	320 °F	UL 746C
UL RTI, Mechanical without Impact	160 °C	320 °F	UL 746C
	V-0	V-0	

Flammability UL 94 Thermal Properties	Metric @ Thickness 2.50 mm	English @ Thickness 0.0984 in	Comments
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Electrical Properties	Metric	English	Comments
Dielectric Strength	15.0 kV/mm	381 kV/in	ASTM D149
Arc Resistance	180 sec	180 sec	ASTM D495

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

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