

Premix Premi-Glas® 2203-20 CR-SX-HT Fiberglass Reinforced Thermoset SMC

Category : Polymer , Thermoset , Composite SMC , Filled/Reinforced Thermoset

Material Notes:

Premi-Glas® 2203-20 CR-SX-HT is a fiberglass reinforced thermoset sheet molding compound for electrical and flame retardant applications. Key features and benefits are: Enhanced product for higher UL long term operating temperature Good dimensional stability, including excellent thermal resistance Pigmentable for molded-in color; best appearance with mold texture Recognized by Underwriter's Laboratories, File #E42524 Designed for compression 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-2203-20-CR-SX-HT-Fiberglass-Reinforced-Thermoset-SMC.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	50.0 MPa	7250 psi	ASTM D638
Tensile Modulus	10.0 GPa	1450 ksi	ASTM D638
Flexural Strength	125 MPa	18100 psi	ASTM D790
Flexural Modulus	9.00 GPa	1310 ksi	ASTM D790
Poissons Ratio	0.30	0.30	
Shear Modulus	3.80 GPa	551 ksi	Calculated
Izod Impact, Notched	6.50 J/cm	12.2 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.50 J/cm	15.9 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
Comparative Tracking Index	600 V	600 V	ASTM D2303

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

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