

Premix Premi-Glas® 2207-20 CR-SX Fiberglass Reinforced Thermoset SMC

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

Material Notes:

Premi-Glas® 2207-20 CR-SX is a fiberglass reinforced thermoset sheet molding compound for electrical, flame retardant and HVAC applications. Key features and benefits are: Non-Halogen FR technology for regulatory compliance; Pigmentable for molded-in color; best appearance with mold texture; Recognized by Underwriter's Laboratory, 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-2207-20-CR-SX-Fiberglass-Reinforced-Thermoset-SMC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.85 - 1.90 g/cc	1.85 - 1.90 g/cc	
Linear Mold Shrinkage	0.0010 - 0.0025 cm/cm	0.0010 - 0.0025 in/in	Polymerization Shrinkage

Mechanical Properties	Metric	English	Comments
Tensile Strength	65.0 MPa	9430 psi	ASTM D638
Tensile Modulus	12.0 GPa	1740 ksi	ASTM D638
Flexural Strength	190 MPa	27600 psi	ASTM D790
Flexural Modulus	10.0 GPa	1450 ksi	ASTM D790
Izod Impact, Notched	8.00 J/cm	15.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
UL RTI, Electrical	130 °C	266 °F	UL 746C
UL RTI, Mechanical with Impact	130 °C	266 °F	UL 746C
UL RTI, Mechanical without Impact	130 °C	266 °F	UL 746C
Flammability, UL94	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	5VB	5VB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	16.0 kV/mm	406 kV/in	ASTM D149
Arc Resistance	>= 180 sec	>= 180 sec	ASTM D495

Electrical Properties	Metric	English	Comments
Processing Index			
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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