

Premix Premi-Glas® 2203-22 CR-SX Fiberglass Reinforced SMC

Category : Polymer , Thermoset , Composite SMC , Filled/Reinforced Thermoset , Polyester, TS , Thermoset Polyester Glass SMC

Material Notes:

Description: Premi-Glas® 2203-22 CR-SX is a fiberglass reinforced thermoset Sheet Molding Compound formulated for excellent electrical properties and fire retardance; it also has very good thermal and dimensional stability, and corrosion resistance. Key features and benefits: Underwriters Laboratories 94-V0 flame resistance at 2.5 mm minimum wall thickness Formulated for moderate shrinkage to permit good dimensional stability while releasing from deep-draw moldings Refer to UL file number E42524 Market: Electrical/Flame Retardant Information provided by Premix.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Premi-Glas-2203-22-CR-SX-Fiberglass-Reinforced-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	55.0 MPa	7980 psi	ASTM D638
Tensile Modulus	10.0 GPa	1450 ksi	ASTM D638
Flexural Strength	135 MPa	19600 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	7.00 J/cm	13.1 ft-lb/in	ASTM D256
Izod Impact, Unnotched	9.00 J/cm	16.9 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	
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

Thermal Properties Flammability, UL 94	V-0 Metric	V-0 English	Comments
	@Thickness 2.50 mm	@Thickness 0.0984 in	

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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