

Premix Premi-Glas® 2206-25 CR-SX Fiberglass Reinforced Thermoset SMC

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

Material Notes:

Premi-Glas® 2206-25 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; Suitable for outdoor use in applications involving UV exposure and water immersion in accordance with UL746C (f1), 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-2206-25-CR-SX-Fiberglass-Reinforced-Thermoset-SMC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.75 - 1.85 g/cc	1.75 - 1.85 g/cc	
Moisture Absorption at Equilibrium	0.20 % @Time 86400 sec	0.20 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage	0.0010 - 0.0025 cm/cm	0.0010 - 0.0025 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	130 MPa	18900 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	5.50 J/cm	10.3 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.00 J/cm	13.1 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 µm/m-°C	11.1 µin/in-°F	Z Direction
CTE, linear, Transverse to Flow	15.0 µm/m-°C	8.33 µin/in-°F	XY Direction
Thermal Conductivity	0.360 W/m-K	2.50 BTU-in/hr-ft²-°F	
Deflection Temperature at 1.8 MPa (264 psi)	>= 250 °C	>= 482 °F	ASTM D648-07
UL RTI, Electrical	130 °C	266 °F	UL 746C

Thermal Properties	Metric	English	Comments
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 2.30 mm	@Thickness 0.0906 in	
	5VB	5VB	
	@Thickness 2.30 mm	@Thickness 0.0906 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	18.0 kV/mm	457 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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