

Premix Premi-Glas® 2550® CR-SX Fiberglass Reinforced Thermoset SMC

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

Material Notes:

Premi-Glas 2550® CR-SX is an advanced fiberglass reinforced thermoset sheet molding compound for electrical, flame retardant and HVAC applications where stringent flame spread and smoke generation criteria are required. Key features and benefits are: Non-Halogen FR technology for regulatory compliance Meets Steiner Tunnel < 25 Flame spread index and < 50 Smoke index Required in some instances where > 10 square feet of composite is present 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-2550-CR-SX-Fiberglass-Reinforced-Thermoset-SMC.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.00 g/cc	2.00 g/cc	
Linear Mold Shrinkage	0.00025 cm/cm	0.00025 in/in	Polymerization Shrinkage

Mechanical Properties	Metric	English	Comments
Tensile Strength	58.0 MPa	8410 psi	ASTM D638
Tensile Modulus	12.0 GPa	1740 ksi	ASTM D638
Flexural Strength	135 MPa	19600 psi	ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	ASTM D790
Izod Impact, Notched	5.10 J/cm	9.55 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.70 J/cm	14.4 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
UL RTI, Electrical	105 °C	221 °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	
Flame Spread Index	5VB	5VB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Flame Spread Index	10	10	UL723 Steiner Tunnel

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

Descriptive Properties	Value	Comments
Smoke Developed Index	40	UL723 Steiner Tunnel

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