

## Premix Premi-Glas® 2205-25 CR-SX Fiberglass Reinforced SMC

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

### Material Notes:

Description: Premi-Glas® 2205-25 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 945VA flame resistance at 2.5 mm minimum wall thickness Subjected to UL746C testing for consideration in exterior applications involving ultraviolet light and water immersion or humidity exposure Formulated for moderate shrinkage to permit good dimensional stability while releasing from deep-draw moldings Refer to UL file E42524 Market: Electrical/Flame Retardant Information provided by Premix.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Premix-Premi-Glas-2205-25-CR-SX-Fiberglass-Reinforced-SMC.php](http://www.lookpolymers.com/polymer_Premix-Premi-Glas-2205-25-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	65.0 MPa	9430 psi	ASTM D638
Tensile Modulus	11.0 GPa	1600 ksi	ASTM D638
Flexural Strength	155 MPa	22500 psi	ASTM D790
Flexural Modulus	9.00 GPa	1310 ksi	ASTM D790
Poissons Ratio	0.30	0.30	
Shear Modulus	4.20 GPa	609 ksi	Calculated
Izod Impact, Notched	7.50 J/cm	14.1 ft-lb/in	ASTM D256
Izod Impact, Unnotched	10.0 J/cm	18.7 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 <sup>2</sup> -°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 Thermal Properties	130 °C Metric	266 °F English	UL 746C Comments
Flammability, UL94	V-0	V-0	
	@Thickness 1.80 mm	@Thickness 0.0709 in	
	5VB	5VB	
	@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

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China