

Premix Premi-Glas® 2205-20 CRSX Polyester SMC

Category : Polymer , Thermoset , Composite SMC , Polyester, TS , Thermoset Polyester Glass SMC

Material Notes:

Premi-Glas® 2205-20 CR-SX is a 20% fiberglass reinforced Sheet Molding Compound formulated for condensate pan applications requiring chemical resistance, heat resistance, dimensional stability, weatherability, and mechanical property retention following long term heat exposure. Key features and benefits are: Recognized by Underwriters Laboratory, UL 94-5VA flame recognition at 2.54mm minimum wall thickness and UL 94 V0 flame recognition at 1.78mm. minimum wall thickness. UL recognized in all colors. Formulated to provide accurate as-molded dimensional tolerances. Meets stringent UL-484 requirements for acceptability in room air conditioners following testing for retention of mechanical /electrical properties after UV exposure, water emersion, and oven aging tests. Carries UL 746C recognition for acceptability for outdoor use following UV light, water exposure, and immersion testing.Data provided by Premix.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Premi-Glas-2205-20-CRSX-Polyester-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	50.0 MPa	7250 psi	ASTM D638
Tensile Modulus	10.0 GPa	1450 ksi	ASTM D638
Flexural Strength	125 MPa	18100 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	6.50 J/cm	12.2 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.50 J/cm	15.9 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.0 µm/m-°C	19.4 µin/in-°F	Z Direction
CTE, linear, Transverse to Flow	25.0 µm/m-°C	13.9 µin/in-°F	XY Direction
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft²-°F	
UL RTI, Electrical	130 °C	266 °F	UL 746C
UL RTI, Mechanical with Impact	130 °C	266 °F	UL 746C

Thermal Properties	Metric	English	Comments
UL FTI, Mechanical without Impact	150 °C	302 °F	UL 746C
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

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