

Premix Premi-Glas® 2103-15 CRSX Polyester BMC

Category : Polymer , Thermoset , Polyester, TS , Thermoset Polyester Glass Filled BMC

Material Notes:

Premi-Glas® 2103-15 CR-SX is a 15% glass reinforced thermoset Sheet Molding Compound designed for electrical switchgear and industrial circuit breaker applications. Key features and benefits are: Underwriters Laboratories, U.L. 94-V0 flame recognition at 2.54mm minimum wall thickness. U.L. recognized in all colors. Available in glass contents ranging from 10% - 30%; standard product has 22% reinforcement. Excellent dielectric strength, arc and track resistance. Chemical resistant and self-extinguishing properties. Designed for Compression, Transfer and Injection molding processes. Data provided by Premix.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Premi-Glas-2103-15-CRSX-Polyester-BMC.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	31.0 MPa	4500 psi	ASTM D638
Tensile Modulus	12.0 GPa	1740 ksi	ASTM D638
Flexural Strength	95.0 MPa	13800 psi	ASTM D790
Flexural Modulus	10.0 GPa	1450 ksi	ASTM D790
Poissons Ratio	0.30	0.30	
Shear Modulus	4.60 GPa	667 ksi	Calculated
Izod Impact, Notched	3.20 J/cm	5.99 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.50 J/cm	8.43 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	19.4 $\mu\text{in}/\text{in}\cdot\text{°F}$	Z Direction
CTE, linear, Transverse to Flow	25.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	13.9 $\mu\text{in}/\text{in}\cdot\text{°F}$	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 or Injection Molding
Clamp Pressure	3.45 - 6.89 MPa	500 - 1000 psi	Molding Pressure

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