

Premix Premi-Glas® 2143-24 CR-SX-HT Fiberglass Reinforced Thick Molding Compound

Category : Polymer , Thermoset , Filled/Reinforced Thermoset

Material Notes:

Premi-Glas® 2143-24 CR-SX is a fiberglass reinforced thermoset thick molding compound for electrical and flame retardant applications. Key features and benefits are: TMC compounding process preserves glass integrity for strength vs. BMC Enhanced product for higher UL long term operating temperature Non-Halogen FR technology for regulatory compliance Recognized by Underwriter's Laboratories, File #E42524 Designed for injection or compression molding in matched metal die molds. Information provided by Premix.

Order this product through the following link:

[http://www.lookpolymers.com/polymer_Premi-Glas-2143-24-CR-SX-HT-Fiberglass-Reinforced-Thick-Molding-Compound.php](http://www.lookpolymers.com/polymer_Premix-Premi-Glas-2143-24-CR-SX-HT-Fiberglass-Reinforced-Thick-Molding-Compound.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.70 - 1.80 g/cc	1.70 - 1.80 g/cc	
Linear Mold Shrinkage	0.0015 - 0.0020 cm/cm	0.0015 - 0.0020 in/in	Polymerization Shrinkage

Mechanical Properties	Metric	English	Comments
Tensile Strength	82.0 MPa	11900 psi	ASTM D638
Tensile Modulus	15.0 GPa	2180 ksi	ASTM D638
Flexural Strength	140 MPa	20300 psi	ASTM D790
Flexural Modulus	10.0 GPa	1450 ksi	ASTM D790
Poissons Ratio	0.30	0.30	
Shear Modulus	5.80 GPa	841 ksi	Calculated
Izod Impact, Notched	11.0 J/cm	20.6 ft-lb/in	ASTM D256
Izod Impact, Unnotched	14.0 J/cm	26.2 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	155 °C	311 °F	UL 746C
UL RTI, Mechanical with Impact	160 °C	320 °F	UL 746C
UL RTI, Mechanical without Impact	160 °C	320 °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	Injection or Compression Molding
Clamp Pressure	3.45 - 6.89 MPa	500 - 1000 psi	Molding Pressure

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