

Premix Premi-Glas® 1200-25 Fiberglass Reinforced Thermoset SMC

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

Material Notes:

Premi-Glas® 1200-25 is a fiberglass reinforced thermoset sheet molding compound for general purpose applications requiring thermal stability and stiffness. Key features and benefits are: Excellent stiffness to weight ratio, non-melting Good dimensional stability, including excellent thermal resistance Pigmentable for molded-in color; best appearance with mold texture Excellent property retention in cold and hot environments Good corrosion resistance except in acid environments. 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-1200-25-Fiberglass-Reinforced-Thermoset-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 - 0.0030 cm/cm	0.0015 - 0.0030 in/in	Polymerization Shrinkage

Mechanical Properties	Metric	English	Comments
Tensile Strength	60.0 MPa	8700 psi	ASTM D638
Tensile Modulus	12.0 GPa	1740 ksi	ASTM D638
Flexural Strength	150 MPa	21800 psi	ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	ASTM D790
Compressive Strength	190 MPa	27600 psi	ASTM D695
Poissons Ratio	0.30	0.30	
Shear Modulus	4.60 GPa	667 ksi	Calculated
Izod Impact, Notched	7.00 J/cm	13.1 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 ² -°F	

Processing Properties	Metric	English	Comments
Processing Temperature	150 °C	302 °F	Compression Molding

Processing Properties	Metric	English	Comments
Clamp Pressure	3.45 6.89 MPa	500 1000 psi	Molding Pressure

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