

Premix Premi-Glas® 1201-20 Fiberglass Reinforced Thermoset SMC

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

Material Notes:

Premi-Glas® 1201-20 is a fiberglass reinforced thermoset sheet molding compound for sanitary ware applications such as shower bases and surrounds, bathtubs and vanity tops. Key features and benefits are: Supports ANSI Z124.2 and CSA B45.5 requirements High gloss surface appearance with minimal rippling on deep draws Excellent as-molded dimensional tolerances Outstanding moldability and flow in compression molding processes Standard colors are white and bone 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-1201-20-Fiberglass-Reinforced-Thermoset-SMC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.76 g/cc	1.76 g/cc	
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	Polymerization Shrinkage

Mechanical Properties	Metric	English	Comments
Tensile Strength	45.0 MPa	6530 psi	ASTM D638
Tensile Modulus	10.0 GPa	1450 ksi	ASTM D638
Flexural Strength	128 MPa	18600 psi	ASTM D790
Flexural Modulus	10.0 GPa	1450 ksi	ASTM D790
Poissons Ratio	0.30	0.30	
Shear Modulus	3.80 GPa	551 ksi	Calculated
Izod Impact, Notched	5.30 J/cm	9.93 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.00 J/cm	13.1 ft-lb/in	ASTM D4812

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

Processing Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Flame Resistance		pass at 3 mm	ANSI Z124.2
Stain Resistance		pass	ANSI Z124.2

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