

Premix Premi-Glas® 1200-30 Polyester SMC

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

Material Notes:

Premi-Glas® 1200-30 is a fiberglass-reinforced, thermoset, sheet molding compound designed for Class A Heavy Truck and Marine body panels and interior structural components where smooth flat surfaces, high strength and structural integrity are required. Key features and benefits are: In mold and powder coating capable. Low moisture absorption properties. Accepts standard automotive primers and paints. Excellent flexural strength and flexural modulus properties. Unidirectional fiber distribution for increased impact properties. Standard color – natural. Designed for compression molding in, matched metal molds. Data provided by Premix.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Premi-Glas-1200-30-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 - 0.0030 cm/cm	0.0015 - 0.0030 in/in	Polymerization Shrinkage

Mechanical Properties	Metric	English	Comments
Tensile Strength	75.0 MPa	10900 psi	ASTM D638
Tensile Modulus	12.0 GPa	1740 ksi	ASTM D638
Flexural Strength	180 MPa	26100 psi	ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	ASTM D790
Compressive Strength	215 MPa	31200 psi	ASTM D695
Poissons Ratio	0.30	0.30	
Shear Modulus	4.60 GPa	667 ksi	Calculated
Izod Impact, Notched	8.00 J/cm	15.0 ft-lb/in	ASTM D256
Izod Impact, Unnotched	11.5 J/cm	21.5 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

Processing Properties	Metric	English	Comments
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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China