

Premix Premi-Glas® 1203-30 Fiberglass Reinforced SMC

Category : Polymer , Thermoset , Composite SMC , Filled/Reinforced Thermoset , Polyester, TS , Thermoset Polyester Glass SMC

Material Notes:

Description: Premi-Glas® 1203-30 is a fiberglass-reinforced, thermoset sheet molding compound designed for structural and semi-structural components where smooth flat surfaces, high strength and structural durability are required. Key features and benefits: Excellent surface profile for highly visible painted surfaces Low moisture absorption properties; successful in personal watercraft applications Accepts automotive primers and paints; accepts powder in-mold-coating Excellent flexural strength and flexural modulus properties impart outstanding toughness Standard color is unpigmented/natural Market: Structural/Marine/Personal Watercraft Information provided by Premix.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Premi-Glas-1203-30-Fiberglass-Reinforced-SMC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.95 g/cc	1.95 g/cc	
Linear Mold Shrinkage	0.00025 cm/cm	0.00025 in/in	Polymerization Shrinkage

Mechanical Properties	Metric	English	Comments
Tensile Strength	100 MPa	14500 psi	ASTM D638
Elongation at Break	1.2 %	1.2 %	ASTM D638
Tensile Modulus	15.0 GPa	2180 ksi	ASTM D638
Flexural Strength	210 MPa	30500 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	9.50 J/cm	17.8 ft-lb/in	ASTM D256
Izod Impact, Unnotched	15.0 J/cm	28.1 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	

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

Contact Songhan Plastic Technology Co.,Ltd.

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