

Premix Premi-Glas® 1206 LD Fiberglass Reinforced Thermoset SMC

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

Material Notes:

Premi-Glas® 1206 LD is a fiberglass reinforced thermoset sheet molding compound for transportation or structural and semi-structural applications where good surface appearance, high strength and durability are required in a low density composite. Key features and benefits are: Very good surface profile for highly visible painted surface Specific gravity of 1.5 for weight savings vs. standard composites Accepts automotive primers and powder in-mold-coatings Excellent flexural strength and outstanding toughness 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-1206-LD-Fiberglass-Reinforced-Thermoset-SMC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	
Filler Content	38 %	38 %	Glass, weight fraction; Premix washout
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	1.9 %	1.9 %	ASTM D638
Tensile Modulus	8.50 GPa	1230 ksi	ASTM D638
Flexural Strength	220 MPa	31900 psi	ASTM D790
Flexural Modulus	8.00 GPa	1160 ksi	ASTM D790
Izod Impact, Notched	11.0 J/cm	20.6 ft-lb/in	ASTM D256
Izod Impact, Unnotched	15.0 J/cm	28.1 ft-lb/in	ASTM D4812

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

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