

Premix Premi-Glas® 1205 Glass Reinforced SMC

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

Material Notes:

Description: Premi-Glas® 1205 is a glass reinforced thermoset Sheet Molding Compound formulated for residential door skins and similar construction applications. Key features and benefits: Excellent warp resistance and dimensional repeatabilityExcellent resistance to sagging and distortion during door skin assemblyVery good flow and fill in thin moldingsOutstanding appearance in wood-grain textured or smooth surface applicationsStandard colors are beige and whiteMarket: Construction/Residential DoorsInformation provided by Premix.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Premi-Glas-1205-Glass-Reinforced-SMC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.80 g/cc	1.80 g/cc	
Linear Mold Shrinkage	0.00040 cm/cm	0.00040 in/in	Polymerization Shrinkage

Mechanical Properties	Metric	English	Comments
Tensile Strength	40.0 MPa	5800 psi	ASTM D638
Elongation at Break	0.80 %	0.80 %	ASTM D638
Tensile Modulus	10.0 GPa	1450 ksi	ASTM D638
Flexural Strength	110 MPa	16000 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	5.50 J/cm	10.3 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.50 J/cm	12.2 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
Processing Temperature	150 °C	302 °F	Compression Molding

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