

Premi-Glas® 1205

Sheet Molding Compound

PRODUCT DESCRIPTION

Glass fiber reinforced Polyester SMC suitable for residential entry door skins and other general purpose applications.

GENERAL

Material Status	• Commercial: Active		
Availability	• North America	• South America	
Filler/Reinforcement	• Glass Fiber and mineral filler		
Features	<ul style="list-style-type: none"> • Good warp resistance • Excellent resistance to sagging and distortion during door assembly • Outstanding appearance in wood-grain texture or smooth skin applications. • Standard colors are beige and white. 		
Processing Method	• This SMC product is generally intended to be compression molded in matched metal die molds, typically at 300°F (150°C) and 500 to 1,000 psi (35-65 BAR) molding pressure. Strength values may be affected by the molding process.		
Resin	• Unsaturated Polyester Composite		

PHYSICAL	Typical	Unit	Test Method
Density	1.80	g/cm ³	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.0004	in/in	ASTM D955
CLTE, X-Y plane	25	ppm/°C	ASTM E831
CLTE, Z plane	35	ppm/°C	ASTM E831
Poisson's Ratio	0.3		ASTM D638

MECHANICAL (As cut)	Typical	Unit	Test Method
Tensile Modulus	1.5 x 10 ⁶ (10)	psi (GPa)	ASTM D638
Tensile Strength	6,000 (40)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.5 x 10 ⁶ (10)	psi (GPa)	ASTM D790
Flexural Strength	16,000 (110)	psi (MPa)	ASTM D790

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IMPACT	Typical	Unit	Test Method
Izod Notched Impact Strength	10 (550)	ft-lb/in (J/m)	ASTM D256
Unnotched Impact Strength	12 (650)	ft-lb/in (J/m)	ASTM D4812

For additional information, please contact:

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Page 2 of 2

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