

Premi-Glas[®] 1288

Sheet Molding Compound

PRODUCT DESCRIPTION

Glass fiber reinforced Polyester with a 53% nominal glass fiber content. Engineered for fuel tank protective heat shields and other structural or semi-structural applications.

GENERAL

Material Status	• Commercial: Active		
Availability	• North America	• South America	
Filler/Reinforcement	• Glass Fiber and mineral filler		
Features	• Excellent flow and fill	• Outstanding impact performance including cold impact	
	• Excellent strength to weight mechanicals	• Flame resistant per ISO 3795	
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	1.73	g/cm ³	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.00146	in/in	ASTM D955
Water Absorption, 24 hrs, 23°C	0.20	%	ASTM D570
CLTE, X-Y plane	18	ppm/°C	ASTM E831
CLTE, Z plane	42	ppm/°C	ASTM E831

MECHANICAL (As cut)	Typical	Unit	Test Method
Tensile Modulus	1.9 x 10 ⁶ (13)	psi (GPa)	ASTM D638
Tensile Strength	24,000 (165)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.7 x 10 ⁶ (12)	psi (GPa)	ASTM D790
Flexural Strength	45,000 (310)	psi (MPa)	ASTM D790
Compressive Strength	31,000 (215)	psi (MPa)	ASTM D695

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IMPACT	Typical	Unit	Test Method
Izod Notched Impact Strength	18 (950)	ft-lb/in (J/m)	ASTM D256
Izod Notched Impact Strength -40°C	20.5 (1100)	ft-lb/in (J/m)	ASTM D4812
THERMAL	Typical	Unit	Test Method
Heat Deflection Temperature	>572°F (>300°C)	°F (°C)	ASTM D648
FLAMMABILITY	Typical	Unit	Test Method
Flammability	3	mm/minute	ISO 3795

For additional information, please contact:

A. Schulman Inc., Engineered Composites
3365 East Center St, Conneaut, Ohio 44030
p: 440-224-2181
f: 440-224-2766
www.aschulman.com

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