

Premi-Glas® 1203-30

Sheet Molding Compound

PRODUCT DESCRIPTION

Glass fiber reinforced Polyester SMC for automotive body panel, personal watercraft or structural and semi-structural applications.

GENERAL

Material Status	• Commercial: Active		
Availability	• North America	• South America	
Filler/Reinforcement	• Glass Fiber and mineral filler		
Features	• Excellent surface appearance • Low moisture absorption	• High Strength • Unpigmented or grey	• Accepts automotive primers and powder in-mold coating
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	1.95	g/cm ³	ASTM D792
Mold Shrinkage (RT mold/RT part)	-0.00025	in/in	ASTM D955
CLTE, X-Y plane	25	ppm/°C	ASTM E831
CLTE, Z plane	35	ppm/°C	ASTM E831
Poisson's Ratio	0.30		ASTM D638

MECHANICAL (As molded)	Typical	Unit	Test Method
Tensile Modulus	2.2 x 10 ⁶ (15)	psi (GPa)	ASTM D638
Tensile Strength	14,500 (100)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.5 x 10 ⁶ (10.3)	psi (GPa)	ASTM D790
Flexural Strength	30,500 (210)	psi (MPa)	ASTM D790
Tensile Elongation	1.2	%	ASTM D638

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IMPACT	Typical	Unit	Test Method
Izod Notched Impact Strength	18 (950)	ft-lb/in (J/m)	ASTM D256
Unnotched Impact Strength	28 (1,500)	ft-lb/in (J/m)	ASTM D4812
THERMAL	Typical	Unit	Test Method
Thermal Conductivity, 25°C	0.30	W/m-°C	ASTM E1461
FLAMMABILITY	Typical	Unit	Test Method
Flammability	Pass	Pass/Fail	FMVSS302

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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