

Premi-Glas[®] 1203BBC-27

Sheet Molding Compound

PRODUCT DESCRIPTION

Glass fiber reinforced Polyester SMC suitable for body panel, structural and semi-structural applications. A portion of the resin matrix is derived from non-petroleum, renewable resource feedstock.

GENERAL

Material Status	• Commercial: Active		
Availability	• North America	• South America	
Filler/Reinforcement	• Glass Fiber and mineral filler		
Features	• Contains Bio-Based Content • Unpigmented or grey colors	• Excellent Surface Profile • Accepts automotive primers and powder in-mold coatings	• Low moisture absorption
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	1.92	g/cm ³	ASTM D792
Mold Shrinkage (RT mold/RT part)	-0.00008	in/in	ASTM D955
Water Absorption, 24 hrs, 23°C	0.14	%	ASTM D570
CLTE, X-Y plane	13	ppm/°C	ASTM E831
CLTE, Z plane	27	ppm/°C	ASTM E831
Poisson's Ratio	0.30		ASTM D638

MECHANICAL (As molded)	Typical	Unit	Test Method
Tensile Modulus	2.0 x 10 ⁶ (14)	psi (GPa)	ASTM D638
Tensile Strength	14,000 (100)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.5 x 10 ⁶ (10)	psi (GPa)	ASTM D790
Flexural Strength	32,000 (220)	psi (MPa)	ASTM D790

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IMPACT	Typical	Unit	Test Method
Izod Notched Impact Strength	19 (1000)	ft-lb/in (J/m)	ASTM D256
Unnotched Impact Strength	30 (1600)	ft-lb/in (J/m)	ASTM D4812

THERMAL	Typical	Unit	Test Method
Glass Transition T _g	392 (200)	°F (°C)	ASTM D4065
Thermal Conductivity, 25°C	0.56	W/m-°K	ASTM E1461

For additional information, please contact:

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