

Premi-Glas[®] 7001 (preliminary Technical Data Sheet)

Sheet Molding Compound

PRODUCT DESCRIPTION

Glass fiber reinforced Polyester SMC suitable for body panel, structural and semi-structural applications.

GENERAL

Material Status	• Commercial: Active
Availability	• Currently compounded at Conneaut, OH, USA
Filler/Reinforcement	• Glass Fiber and mineral filler
Features	<ul style="list-style-type: none"> • Contains Bio-Based Content • Fire Retardant • Unpigmented or grey colors • Excellent Surface Profile • Accepts automotive primers and powder in-mold coatings
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. Data presented is from net-shape molded coupons.
Resin	• Unsaturated Polyester Composite

PHYSICAL

	Typical	Unit	Test Method
Density	1.84	g/cm ³	ASTM D792
Mold Shrinkage (Expansion, RT mold/RT part)	-0.00017	in/in	ASTM D955

MECHANICAL (As molded)

	Typical	Unit	Test Method
Tensile Modulus	1.8 x 10 ⁶ (12,600)	psi (MPa)	ASTM D638
Tensile Strength	11,600 (80)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.4 x 10 ⁶ (9,500)	psi (MPa)	ASTM D790
Flexural Strength	27,500 (190)	psi (MPa)	ASTM D790

IMPACT

	Typical	Unit	Test Method
Izod Notched Impact Strength	23 (1225)	ft-lb/in (J/m)	ASTM D256
Unnotched Izod Impact Strength	30 (1575)	ft-lb/in (J/m)	ASTM D4812

FLAMMABILITY

	Typical	Unit	Test Method
Flammability Classification 0.090 inch (2.3 mm)	5Va	--	UL 94

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