

Premi-Glas® 3404

Sheet Molding Compound

PRODUCT DESCRIPTION

Glass fiber reinforced Polyester SMC suitable for mass transit and semi-structural applications where low smoke and low flammability are required.

GENERAL

Material Status	• Commercial: Active		
Availability	• North America	• South America	
Filler/Reinforcement	• Glass Fiber and mineral filler		
Features	<ul style="list-style-type: none"> • Radiant panel flame spread index of less than 35 per ASTM E-162 • Smoke Density of less than 25 per ASTM E662 (NBS smoke chamber) • Accepts powder in-mold-coatings • Non-Halogen FR technology 		
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	1.83	g/cm ³	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.0003	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	13,000 (90)	psi (MPa)	ASTM D638
Tensile Elongation	1.2%	%	ASTM D638
Flexural Modulus (RT)	1.5 x 10 ⁶ (10)	psi (GPa)	ASTM D790
Flexural Strength	27,500 (190)	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	18 (950)	ft-lb/in (J/m)	ASTM D4812
THERMAL	Typical	Unit	Test Method
Thermal Conductivity, 25°C	0.3	W/m-°K	ASTM E1461
FLAMMABILITY	Typical	Unit	Test Method
Radiant Panel Flame Index	35 or less		ASTM E-162
NBS Smoke Density Index, Ds @ 4 minutes	25 or less		ASTM E-662

For additional information, please contact:

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