Premi-Glas® 1200-48

Sheet Molding Compound

PRODUCT DESCRIPTION

Glass fiber reinforced Polyester SMC suitable for general purpose applications requiring high strength.

GENERAL

Material Status	• Commercial: Active	
Availability	• North America	• South America
Filler/Reinforcement	• Glass Fiber and mineral filler	
Features	• Excellent property retention in cold/hot environments	
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	1.85	g/cm^3	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.0005	in/in	ASTM D955
CLTE, X-Y plane	13.5	ppm/°C	ASTM E831
CLTE, Z plane	55.5	ppm/°C	ASTM E831
Poisson's Ratio	0.32		ASTM D638

MECHANICAL (As molded)	Typical	Unit	Test Method
Tensile Modulus	2.1-2.6 x 10^6 (15-18)	psi (GPa)	ASTM D638
Tensile Strength	20,500 (140)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	2.1-2.6 x 10^6 (15-18)	psi (GPa)	ASTM D790
Flexural Strength	**45**,000 (310)	psi (MPa)	ASTM D790

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IMPACT	Typical	Unit	Test Method
Izod Notched Impact Strength	23 (1250)	ft-lb/in (J/m)	ASTM D256
Unnotched Impact Strength	46 (2500)	ft-lb/in (J/m)	ASTM D4812

For additional information, please contact:

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