Premi-Glas® 1200-10

Sheet Molding Compound

PRODUCT DESCRIPTION

Glass fiber reinforced Polyester SMC suitable for general purpose applications requiring thermal stability and stiffness.

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	1.70-1.85	g/cm^3	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.002-0.0035	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 cut)	Typical	Unit	Test Method
Tensile Modulus	1.6 x 10^6 (11)	psi (GPa)	ASTM D638
Tensile Strength	3,000 (20)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.4 x 10^6 (9.5)	psi (GPa)	ASTM D790
Flexural Strength	10,000 (70)	psi (MPa)	ASTM D790
Compressive Strength	17,500 (120)	psi (MPa)	ASTM D695

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IMPACT	Typical	Unit	Test Method
Izod Notched Impact Strength	5.8 (310)	ft-lb/in (J/m)	ASTM D256
Unnotched Impact Strength	6.8 (365)	ft-lb/in (J/m)	ASTM D4812

For additional information, please contact:

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