Premi-Glas® 1200H-15

Sheet Molding Compound

PRODUCT DESCRIPTION

Glass fiber reinforced Polyester SMC suitable for general purpose and HVAC 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 • Suitable for outdoor use in accordance with UL746C (f1)	• UL Recognized—File E69414 • UL94-HB @ 1.5 mm
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)	0.0015-0.0025	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	1.7×10^6 (12)	psi (GPa)	ASTM D638
Tensile Strength	5,000 (35)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.4×10^6 (9.5)	psi (GPa)	ASTM D790
Flexural Strength	14,000 (95)	psi (MPa)	ASTM D790
Compressive Strength	21,000 (145)	psi (MPa)	ASTM D695

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IMPACT	Typical	Unit	Test Method
Izod Notched Impact Strength	8 (425)	ft-lb/in (J/m)	ASTM D256
Unnotched Impact Strength	11 (600)	ft-lb/in (J/m)	ASTM D4812

THERMAL	Typical	Unit	Test Method
Thermal Conductivity, 25°C	0.30	W/m-°K	ASTM E1461
UL RTI, Electrical	266 (130)	°F (°C)	UL 746C
UL RTI, Mechanical with Impact	266 (130)	°F (°C)	UL 746C
UL RTI, Mechanical without Impact	266 (130)	°F (°C)	UL 746C

FLAMMABILITY	Typical	Unit	Test Method
Flammability	Pass 0.60 (1.5)	in (mm)	UL94 HB

ELECTRICAL	Typical	Unit	Test Method
Dielectric Strength	380 (15)	Volts/mil (kV/mm)	ASTM D149
Arc Track Resistance	180	seconds	ASTM D495

UL File Number E69414

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