Premi-Glas® 1268

Thick Molding Compound

PRODUCT DESCRIPTION

Glass fiber reinforced Polyester TMC suitable for composite powertrain applications such as valve covers and timing gear covers.

GENERAL	
Material Status	• Commercial: Active
Availability	• North America
Filler/Reinforcement	• Glass Fiber and mineral filler
Features	• Ideal for automated Injection or Injection-Compression molding • Excellent resistance to automotive chemicals and salt • Excellent thermal properties
Processing Method	• This TMC product is generally intended to be injection molding, injection-compression, or 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	1.74	g/cm^3	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.0008	in/in	ASTM D955
Water Absorption, 24 hrs, 23°C	0.1%	%	ISO 62
CLTE, X-Y plane	25	ppm/°C	ASTM E831
CLTE, Z plane	35	ppm/°C	ASTM E831
Poisson's Ratio	0.35		ASTM D638

MECHANICAL (As cut)	Typical	Unit	Test Method
Tensile Modulus (RT)	1.45×10^6 (10)	psi (GPa)	ISO 527
Tensile Strength (RT)	5,300 (37)	psi (MPa)	ISO 527
Flexural Modulus (RT)	$1.33.x\ 10^6$ (9.2)	psi (GPa)	ISO 178
Flexural Strength (RT)	11,750 (82)	psi (MPa)	ISO 178

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IMPACT	Typical	Unit	Test Method
Unnotched Impact Strength	25 (1350)	KJ/m^2	ISO 180

THERMAL	Typical	Unit	Test Method
Glass Transition T_g	350 (177)	°F (°C)	ASTM D4065-01
Heat Distortion Temperature. 264 PSI	>520 (>270)	°F (°C)	ISO 75

For additional information, please contact:

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