

# Premi-Glas® 1266

## Thick Molding Compound

### PRODUCT DESCRIPTION

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

### GENERAL

<b>Material Status</b>	• Commercial: Active
<b>Availability</b>	• North America
<b>Filler/Reinforcement</b>	• Glass Fiber and mineral filler
<b>Features</b>	<ul style="list-style-type: none"> <li>• Excellent resistance to automotive chemicals, and salt spray</li> <li>• Replaces cast metals for reduced Noise, Vibration and Harshness</li> <li>• Excellent thermal properties and elevated temperature modulus retention</li> </ul>
<b>Processing Method</b>	• 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.
<b>Resin</b>	• Unsaturated vinyl ester Composite

PHYSICAL	Typical	Unit	Test Method
Density	1.80	g/cm <sup>3</sup>	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.0004	in/in	ASTM D955
CLTE, X-Y plane	25	ppm/°C	ASTM E831
CLTE, Z plane	35	ppm/°C	ASTM E831
Poisson's Ratio	0.27		ASTM D638

MECHANICAL (Injection molded)	Typical	Unit	Test Method
Tensile Strength	6,000 (40)	psi (MPa)	ISO 527
Tensile Modulus	1.7 x 10 <sup>6</sup> (12)	psi (GPa)	ISO 527
Flexural Modulus (RT)	1.5 x 10 <sup>6</sup> (10)	psi (GPa)	ISO 178
Flexural Strength	11,500 (80)	psi (MPa)	ISO 178

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<b>IMPACT</b>	<b>Typical</b>	<b>Unit</b>	<b>Test Method</b>
Unnotched Impact Strength	10	kJoules/m <sup>2</sup>	ISO 180
<b>THERMAL</b>	<b>Typical</b>	<b>Unit</b>	<b>Test Method</b>
Heat Deflection Temperature 264 psi	>520 (>270)	°F (°C)	ISO 75
Glass Transition T <sub>g</sub>	400 (204)	°F (°C)	ASTM D4065
Thermal Conductivity, 25°C	0.4	W/m-°K	ASTM E1461

For additional information, please contact:

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