

# 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

<b>Material Status</b>	• Commercial: Active
<b>Availability</b>	• North America
<b>Filler/Reinforcement</b>	• Glass Fiber and mineral filler
<b>Features</b>	• Ideal for automated Injection or Injection-Compression molding • Excellent resistance to automotive chemicals and salt • Excellent thermal properties
<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 Polyester Composite

PHYSICAL	Typical	Unit	Test Method
Density	1.74	g/cm <sup>3</sup>	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 x 10 <sup>6</sup> (10)	psi (GPa)	ISO 527
Tensile Strength (RT)	5,300 (37)	psi (MPa)	ISO 527
Flexural Modulus (RT)	1.33.x 10 <sup>6</sup> (9.2)	psi (GPa)	ISO 178
Flexural Strength (RT)	11,750 (82)	psi (MPa)	ISO 178

The information and recommendations contained in this document are based upon data collected by A. Schulman and are believed to be reliable; however, because A. Schulman cannot anticipate or control the many different conditions under which this information and/or product may be used, no representation is made and no warranty is given of any kind, express or implied, for completeness, accuracy, availability, suitability, usefulness, commercial value, or non-violation of intellectual property rights of information, recommendation, and products and services directly or indirectly provided. A. Schulman assumes no responsibility for the results of the use of products and processes described herein and expressly disclaims the implied warranties of merchantability and fitness for a particular use.

# Premi-Glas® 1286

## Thick Molding Compound

<b>IMPACT</b>	<b>Typical</b>	<b>Unit</b>	<b>Test Method</b>
Unnotched Impact Strength	25 (1350)	KJ/m <sup>2</sup>	ISO 180
<b>THERMAL</b>	<b>Typical</b>	<b>Unit</b>	<b>Test Method</b>
Glass Transition T <sub>g</sub>	350 (177)	°F (°C)	ASTM D4065-01
Heat Distortion Temperature. 264 PSI	>520 (>270)	°F (°C)	ISO 75

For additional information, please contact:

**A. Schulman Inc., Engineered Composites**  
3365 East Center St, Conneaut, Ohio 44030  
p: 440-224-2181  
f: 440-224-2766  
[www.aschulman.com](http://www.aschulman.com)

The information and recommendations contained in this document are based upon data collected by A. Schulman and are believed to be reliable; however, because A. Schulman cannot anticipate or control the many different conditions under which this information and/or product may be used, no representation is made and no warranty is given of any kind, express or implied, for completeness, accuracy, availability, suitability, usefulness, commercial value, or non-violation of intellectual property rights of information, recommendation, and products and services directly or indirectly provided. A. Schulman assumes no responsibility for the results of the use of products and processes described herein and expressly disclaims the implied warranties of merchantability and fitness for a particular use.