

Technical Data Sheet

Typical Application — Composite Powertrain

Premi-Glas® 1268 is a fiberglass reinforced thermoset Thick Molding Compound for composite powertrain applications such as valve covers and timing gear covers.

- Ideal for automated Injection or Injection-Compression molding.
- Excellent resistance to automotive chemicals and salt spray.
- Replaces cast metals for reduced Noise, Vibration and Harshness.
- TMC compounding process preserves glass integrity for strength vs BMC.
- Excellent thermal properties and elevated temperature modulus retention.

**Typical Values. Mechanical values are for coupons injection molded to net shape.**

Properties	Test Method	Values (US)	Values (Metric)
Flexural Strength	ISO 178	11,750 psi	82 MPa
Flexural Modulus, tangent	ISO 178	1.33 x 10 <sup>6</sup> psi	9.2 GPa
Tensile Strength	ISO 527	5,300 psi	37 MPa
Tensile Modulus	ISO 527	1.45 x 10 <sup>6</sup> psi	10 GPa
Unnotched Impact	ISO 180	NA	10 kJoules/m <sup>2</sup>
Water Absorption	ISO 62	0.1%	0.1%
Heat Distortion Temperature, 264 psi	ISO 75	>520 deg F	>270 deg C
Glass Transition Temperature, Tg	ASTM D4065-01	350 deg F	177 deg C

This TMC product is generally intended to be injection molded or injection-compression molded in matched metal die molds, typically at 320°F (160°C) and 1000 psi injection pressure. Strength values may be affected by the molding process. Nominal values for polymerization shrinkage (0.0008 in/in) and specific gravity (1.74) may be customized for individual applications. Contact your Premix sales representative for specific design recommendations.

**Following physical characteristics are typical of this product:**

CLTE, XY direction: 25 ppm/ deg C
CLTE, Z direction: 35 ppm/deg C
Thermal Conductivity: 0.48 W/m <sup>2</sup> deg K
Poisson's Ratio: 0.35

**The values presented in this data sheet are typical values and are not to be interpreted as product specifications.**

All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee, expressed or implied.

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