PREMIX
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Premi-Glas® 1266
Thick Molding Compound®

Technical Data Sheet

Typical Application — Composite Powertrain

Premi-Glas® 1266 is a fiberglass reinforced thermoset Thick Molding Compound for composite powertrain applications such as valve covers and timing gear covers. It uses a hybrid vinyl ester/polyester resin system for an excellent combination of cost and performance.

- 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	11,500 psi	80 MPa
Flexural Modulus, tangent	ISO 178	1.5×10^6 psi	10 GPa
Tensile Strength	ISO 527	6,000 psi	40 MPa
Tensile Modulus	ISO 527	1.7×10^6 psi	12 GPa
Unnotched Impact	ISO 180	NA	10 kJoules/m^2
Water Absorption	ISO 62	0.2%	0.2%
Heat Distortion Temperature, 264 psi	ISO 75	>520 deg F	>270 deg C
Glass Transition Temperature, Tg	ASTM D4065-01	400 deg F	204 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 (0.00065 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: 0.4 W/m*deg K
Poisson's Ratio: 0.27

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