

Premix Premi-Glas® 1268 Fiberglass Reinforced Thermoset Thick Molding Compound

Category : Polymer , Thermoset , Filled/Reinforced Thermoset

Material Notes:

Premi-Glas® 1268 is a fiberglass reinforced thermoset thick molding compound for composite power train applications such as valve covers and timing gear covers. Key features and benefits are: 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. Information provided by Premix.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Premi-Glas-1268-Fiberglass-Reinforced-Thermoset-Thick-Molding-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.74 g/cc	1.74 g/cc	
Water Absorption	0.10 %	0.10 %	ISO 62
Linear Mold Shrinkage	0.00080 cm/cm	0.00080 in/in	Polymerization Shrinkage

Mechanical Properties	Metric	English	Comments
Tensile Strength	37.0 MPa	5370 psi	ISO 527
Tensile Modulus	10.0 GPa	1450 ksi	ISO 527
Flexural Strength	82.0 MPa	11900 psi	ISO 178
Flexural Modulus	9.20 GPa	1330 ksi	Tangent; ISO 178
Poissons Ratio	0.35	0.35	
Shear Modulus	3.70 GPa	537 ksi	Calculated
Izod Impact, Unnotched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.0 µm/m-°C	19.4 µin/in-°F	Z Direction
CTE, linear, Transverse to Flow	25.0 µm/m-°C	13.9 µin/in-°F	XY Direction
Thermal Conductivity	0.480 W/m-K	3.33 BTU-in/hr-ft ² -°F	
Deflection Temperature at 1.8 MPa (264 psi)	>= 270 °C	>= 518 °F	ISO 75
Glass Transition Temp, Tg	177 °C	351 °F	ASTM D4065-01

Processing Properties	Metric	English	Comments
Processing Temperature	160 °C	320 °F	Injection or Injection-Compression Molding
Clamp Pressure	<= 6.89 MPa	<= 1000 psi	Molding Pressure

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