

Premix Premi-Glas® 1266 (Injection Compression Molded) Glass Reinforced TMC

Category : Polymer , Thermoset , Composite SMC , Filled/Reinforced Thermoset , Polyester, TS , Thermoset Polyester Glass Filled BMC

Material Notes:

Description: Premi-Glas® 1266 is a glass reinforced thermoset molding compound designed for automotive under the hood applications.

Key features and benefits: Designed for Injection or Injection/Compression MoldingExcellent resistance to automotive chemicals and fluids, and to salt sprayReplaces Cast Metals for Reduced Noise, Vibration and HarshnessTMC compounding process preserves glass integrity for excellent strength vs. BMCExcellent thermal properties and elevated temperature modulus retentionMechanical data below are from injection-compression panels; see separate data sheet for compression molded properties as per some specification requirementsMarket:

Composite PowerTrainInformation provided by Premix.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Premi-Glas-1266-Injection-Compression-Molded-Glass-Reinforced-TMC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.74 g/cc	1.74 g/cc	
Water Absorption	0.20 %	0.20 %	ISO 62
Linear Mold Shrinkage	0.00065 cm/cm	0.00065 in/in	Polymerization Shrinkage

Mechanical Properties	Metric	English	Comments
Tensile Strength	40.0 MPa	5800 psi	ISO 527
Tensile Modulus	12.0 GPa	1740 ksi	ISO 527
Flexural Strength	80.0 MPa	11600 psi	ISO 178
Flexural Modulus	10.0 GPa	1450 ksi	Tangent; ISO 178
Poissons Ratio	0.27	0.27	
Shear Modulus	4.70 GPa	682 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	0.400 W/m-K	2.78 BTU-in/hr-ft ² -°F	
Deflection Temperature at 1.8 MPa (264 psi)	>= 270 °C	>= 518 °F	ISO 75

Glass Transition Temp, Tg Thermal Properties	204 °C Metric	399 °F English	ASTM D4065-01 Comments
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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