

Premix Premi-Glas® 1261-28 VE Glass Reinforced Vinyl Ester TMC

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

Material Notes:

Description: Premi-Glas® 1261-28 VE is a glass reinforced vinyl ester molding compound designed for automotive under the hood applications. Key features and benefits: Excellent thermal stability and resistance to the corrosive effects of automotive fluidsExcellent flow at moderate pressures, allowing easy molding in complex geometriesDesigned for Injection or Injection-Compression moldingReplaces Cast Metals for reduced Noise, Vibration, and Harshness, plus molded-in colorTMC compounding process preserves glass integrity for excellent strength vs. BMCMarket: Composite PowerTrainInformation provided by Premix.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Premi-Glas-1261-28-VE-Glass-Reinforced-Vinyl-Ester-TMC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.80 g/cc	1.80 g/cc	
Linear Mold Shrinkage	0.00040 cm/cm	0.00040 in/in	Polymerization Shrinkage

Mechanical Properties	Metric	English	Comments
Tensile Strength	65.0 MPa	9430 psi	ASTM D638
Flexural Strength	150 MPa	21800 psi	ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	Tangent; ASTM D790
Compressive Strength	150 MPa	21800 psi	ASTM D695
Poissons Ratio	0.30	0.30	
Izod Impact, Unnotched	9.00 J/cm	16.9 ft-lb/in	ASTM D4812

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	0.300 W/m-K	2.08 BTU-in/hr-ft²-°F	
Deflection Temperature at 1.8 MPa (264 psi)	>= 270 °C	>= 518 °F	ASTM D648
Glass Transition Temp, Tg	182 °C	360 °F	ASTM D4065-01

Electrical Properties	Metric	English	Comments
Dielectric Strength	15.0 kV/mm	381 kV/in	ASTM D149

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

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