

Premix Premi-Glas® 1265 VE 1265-VE (Injection Compression Molded) Glass Reinforced Vinyl Ester TMC (discontin

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

Material Notes:

Description: Premi-Glas® 1265 VE is a glass reinforced vinyl ester 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 Harshness, plus molded-in colorTMC 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 required per some specificationsMarket: Composite PowerTrainInformation provided by Premix.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Premi-Glas-1265-VE-1265-VE-Injection-Compression-Molded-Glass-Reinforced-Vinyl-Ester-TMC-nbspdiscontin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.80 g/cc	1.80 g/cc	ASTM D792
Water Absorption	0.10 %	0.10 %	ISO 62
Linear Mold Shrinkage	0.00070 cm/cm	0.00070 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	31.0 MPa	4500 psi	ISO 527
Tensile Modulus	11.7 GPa	1700 ksi	tangent; ISO 527
Flexural Strength	89.6 MPa	13000 psi	ISO 178
Flexural Modulus	11.0 GPa	1600 ksi	Tangent; ISO 178
Poissons Ratio	0.274	0.274	ISO 527-1
Shear Modulus	4.59 GPa	666 ksi	Calculated
Izod Impact, Unnotched	1.49 J/cm	2.80 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
CTE, linear	36.0 µm/m-°C	20.0 µin/in-°F	Z-direction; ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	27.0 µm/m-°C	15.0 µin/in-°F	XY-direction; ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	

Specific Heat Capacity Thermal Properties	1.51 J/g-°C Metric	0.360 BTU/lb-°F English	ASTM D1269E Comments
Thermal Conductivity	0.401 W/m-K	2.78 BTU-in/hr-ft²-°F	ASTM D177
Deflection Temperature at 1.8 MPa (264 psi)	271 °C	520 °F	ISO 75
Glass Transition Temp, Tg	188 °C	370 °F	ASTM D4065-01

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