

Premix Premi-Glas® 1265 VE 1265-VE (Compression Molded) Glass Reinforced Vinyl Ester TMC (discontinued **)<

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 compression-molded panels as required for certain specifications; see separate data sheet for injection-compression valuesMarket: Composite PowerTrainInformation provided by Premix.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Specific Gravity	1.75 g/cc	1.75 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	48.3 MPa	7000 psi	ISO 527
Tensile Modulus	11.7 GPa	1700 ksi	tangent; ISO 527
Flexural Strength	121 MPa	17500 psi	ISO 178
Flexural Modulus	9.65 GPa	1400 ksi	Tangent; ISO 178
Poissons Ratio	0.274	0.274	ISO 527-1
Shear Modulus	4.59 GPa	666 ksi	Calculated
Izod Impact, Unnotched	6.41 J/cm	12.0 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
CTE, linear, Transverse to Flow	27.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	15.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	XY-direction; ASTM D696
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Specific Heat Capacity	1.51 J/g- $^{\circ}\text{C}$	0.360 BTU/lb- $^{\circ}\text{F}$	ASTM D1269E
Thermal Conductivity	0.401 W/m-K	2.78 BTU-in/hr-ft 2 - $^{\circ}\text{F}$	ASTM D177

Deflection Temperature at 1.8 MPa Thermal Properties (204 psi)	Metric	English	Comments
Glass Transition Temp, Tg	188 °C	370 °F	ASTM D4065-01

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