

Premix Premi-Glas® 1281-32 VE Glass Reinforced Vinyl Ester SMC (discontinued **)

Category : Polymer , Thermoset , Composite SMC , Filled/Reinforced Thermoset , Vinyl Ester , Vinyl Ester Sheet Molding Compound

Material Notes:

Description: Premi-Glas® 1281-32 VE SMC is a high strength glass reinforced vinyl ester sheet molding compound formulated for under-the-hood automotive applications. Key features and benefits: Designed for compression molding for optimal strength on large-span coversExcellent resistance to automotive chemicals and fluids, and to salt sprayReplaces cast metals for reduced Noise, Vibration, and Harshness, plus molded-in colorExcellent dimensional stability and creep resistanceExcellent thermal properties and elevated temperature modulus retentionMarket: Composite PowerTrainInformation provided by Premix.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Premi-Glas-1281-32-VE-Glass-Reinforced-Vinyl-Ester-SMC-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.83 g/cc	1.83 g/cc	ASTM D792
Water Absorption	0.20 %	0.20 %	ISO 62
Linear Mold Shrinkage	0.00050 cm/cm	0.00050 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	82.7 MPa	12000 psi	ISO 527
Tensile Modulus	13.8 GPa	2000 ksi	tangent; ISO 527
Flexural Strength	179 MPa	26000 psi	ISO 178
Flexural Modulus	11.7 GPa	1700 ksi	Tangent; ISO 178
Compressive Strength	310 MPa	45000 psi	ASTM D695
Poissons Ratio	0.33	0.33	ISO 527
Shear Modulus	5.19 GPa	753 ksi	Calculated
Izod Impact, Notched	13.9 J/cm	26.0 ft-lb/in	ASTM D256

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	1.51 J/g-°C	0.360 BTU/lb-°F	ASTM D1269E

Thermal Properties	Metric	English	Comments
Thermal Conductivity	W/m-K	U-in/hr-ft ² -°F	ASTM D1505E
Deflection Temperature at 1.8 MPa (264 psi)	271 °C	520 °F	ASTM D648
Glass Transition Temp, Tg	188 °C	370 °F	ASTM D4065-01

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