Premix Premi-Glas® 1285VE 1285 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® 1285 VE is a glass reinforced vinyl ester sheet molding compound designed for automotive under the hood 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 colorMeets the requirements of GMP.UP.018Excellent 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-1285VE-1285-VE-Glass-Reinforced-Vinyl-Ester-SMC-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.80 g/cc	1.80 g/cc	ASTM D792
Water Absorption	0.20 %	0.20 %	ISO 62
Linear Mold Shrinkage	0.00026 cm/cm	0.00026 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	86.2 MPa	12500 psi	ISO 62
	58.6 MPa @Temperature 150 °C	8500 psi @Temperature 302 °F	ISO 62
Tensile Modulus	15.2 GPa	2200 ksi	tangent; ISO 527
	8.27 GPa @Temperature 150 °C	1200 ksi @Temperature 302 °F	ISO 527
Flexural Strength	176 MPa	25500 psi	ISO 178
	121 MPa @Temperature 150 °C	17500 psi @Temperature 302 °F	ISO 178
Flexural Modulus	6.21 GPa @Thickness 2.50 mm, Temperature 150 °C	900 ksi @Thickness 0.0984 in, Temperature 302 °F	Secant; ISO 178
	8.27 GPa @Thickness 2.50 mm, Temperature 22.0 °C	1200 ksi @Thickness 0.0984 in, Temperature 71.6 °F	Secant; ISO 178
	8.27 GPa	1200 ksi	

Mechanical Properties	Metric	English	Comments
	@Thickness 0.500 mm, Temperature 150 °C	@Thickness 0.0197 in, Temperature 302 °F	Secant; ISO 178
	11.7 GPa @Thickness 0.500 mm, Temperature 22.0 °C	1700 ksi @Thickness 0.0197 in, Temperature 71.6 °F	Secant; ISO 178
Izod Impact, Unnotched	12.8 J/cm	24.0 ft-lb/in	ASTM D4812
Impact	0.23	0.23	(in) High Speed Impact (Deflection Max Load); ISO 6603-2
	517	517	(lb) High Speed Impact (Impact Max Load); ISO 6603-2
Impact Test	6.91 J	5.10 ft-lb	High Speed Impact (Energy Max Load); ISO 6603-2
	12.6 J	9.30 ft-lb	High Speed Impact (Total Energy); ISO 6603-2

Thermal Properties	Metric	English	Comments
CTE, linear	27.0 µm/m-°C @Temperature 20.0 °C	15.0 µin/in-°F @Temperature 68.0 °F	Z-direction; ASTM D696
CTE, linear, Transverse to Flow	18.0 µm/m-°C @Temperature 20.0 °C	10.0 µin/in-°F @Temperature 68.0 °F	XY-direction; ASTM D696
Thermal Conductivity	0.550 W/m-K	3.82 BTU-in/hr-ft²-°F	ASTM 1530-93
Glass Transition Temp, Tg	188 °C	370 °F	ISO 6721 DMS

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