

Premix Premi-Glas® 1286 Glass Reinforced SMC

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

Material Notes:

Description: Premi-Glas® 1286 is a glass reinforced thermoset 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 retentionBased on proprietary resin matrix for peak thermal performanceMarket: Composite PowerTrainInformation provided by Premix.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Premi-Glas-1286-Glass-Reinforced-SMC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.82 g/cc	1.82 g/cc	
Water Absorption	0.10 %	0.10 %	ISO 62
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	Polymerization Shrinkage

Mechanical Properties	Metric	English	Comments
Tensile Strength	64.0 MPa	9280 psi	ISO 527
	@Temperature 150 °C	@Temperature 302 °F	
	80.0 MPa	11600 psi	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	9.30 GPa	1350 ksi	ISO 527
	@Temperature 150 °C	@Temperature 302 °F	
	14.0 GPa	2030 ksi	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Strength	108 MPa	15700 psi	ISO 178
	@Temperature 150 °C	@Temperature 302 °F	
	200 MPa	29000 psi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	8.00 GPa	1160 ksi	ISO 178
	@Temperature 150 °C	@Temperature 302 °F	
	13.0 GPa	1890 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Shear Modulus	5.40 GPa	783 ksi	Calculated
Izod Impact, Unnotched	13.5 J/cm	25.3 ft-lb/in	ASTM D4812
Impact	3.3	3.3	(kN) High Speed Impact (Impact at max load); ISO 6603-2
	4.9	4.9	(mm) High Speed Impact (Deflection at max load); ISO 6603-2
Impact Test	7.80 J	5.75 ft-lb	High Speed Impact (Energy at max load); ISO 6603-2
	18.8 J	13.9 ft-lb	High Speed Impact (Total energy); ISO 6603-2

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	19.4 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	Z Direction
CTE, linear, Transverse to Flow	20.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	11.1 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	XY Direction
Thermal Conductivity	0.450 W/m-K	3.12 BTU-in/hr-ft ² -°F	
Glass Transition Temp, Tg	210 °C	410 °F	ISO 6721 DMS

Processing Properties	Metric	English	Comments
Processing Temperature	150 °C	302 °F	Compression Molding
Clamp Pressure	3.45 - 6.89 MPa	500 - 1000 psi	Molding Pressure

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