

Premix Premi-Glas® 8102-13 Glass Reinforced Polyester BMC (discontinued **)

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

Material Notes:

Description: Premi-Glas® 8102-13 is a glass reinforced thermoset polyester Bulk Molding Compound designed for injection molding of automotive forward lighting reflectors. Key features and benefits: Excellent dimensional stability and heat resistance. Approved for selected Japanese automaker applications. Outstanding thermal resistance permits smaller, low profile headlamp designs. Designed for high speed, automated injection molding processes. Compatible with thermal-cure and UV-cure basecoats which are required prior to metallization. Available in grey. Market: Forward Lighting. Information provided by Premix.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Premi-Glas-8102-13-Glass-Reinforced-Polyester-BMC-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.99 g/cc	1.99 g/cc	ASTM D792
Water Absorption	0.20 %	0.20 %	ASTM D570
Linear Mold Shrinkage	0.00026 cm/cm	0.00026 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	37.9 MPa	5500 psi	ASTM D638
Tensile Modulus	14.5 GPa	2100 ksi	tangent; ASTM D638
Flexural Strength	75.8 MPa	11000 psi	ASTM D790-1
Flexural Modulus	12.4 GPa	1800 ksi	Tangent; ASTM D790-1
Poissons Ratio	0.30	0.30	ISO 527
Shear Modulus	5.58 GPa	809 ksi	Calculated
Izod Impact, Notched	0.854 J/cm	1.60 ft-lb/in	ASTM D256
Izod Impact, Unnotched	1.92 J/cm	3.60 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
CTE, linear	36.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	20.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	Z-direction; ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	27.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	15.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	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
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