

Premix Premi-Glas® 8105 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® 8105 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 Faster molding cycle times vs. Premi-Glas® 8101 Designed for high speed, automated injection molding processes Improved adhesion vs. Premi-Glas® 8101 with UV-curable basecoats Meets the requirements of GM GMP.UP.014 and Ford WSB-M3D171-A1 Available in grey color Market: Forward Lighting Information provided by Premix.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Premi-Glas-8105-Glass-Reinforced-Polyester-BMC-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.86 g/cc	1.86 g/cc	ASTM D792
Water Absorption	0.20 %	0.20 %	ASTM D570
Linear Mold Shrinkage	-0.000300 cm/cm	-0.000300 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	34.5 MPa	5000 psi	ASTM D638
Tensile Modulus	15.2 GPa	2200 ksi	tangent; ASTM D638
Flexural Strength	65.5 MPa	9500 psi	ASTM D790-1
Flexural Modulus	8.96 GPa @Thickness 0.500 mm, Temperature 150 °C	1300 ksi @Thickness 0.0197 in, Temperature 302 °F	secant; ASTM D790-1
	11.7 GPa @Thickness 0.500 mm, Temperature 22.0 °C	1700 ksi @Thickness 0.0197 in, Temperature 71.6 °F	secant; ASTM D790-1
Poissons Ratio	0.30	0.30	ISO 527
Shear Modulus	5.85 GPa	848 ksi	Calculated
Izod Impact, Notched	0.427 J/cm	0.800 ft-lb/in	ASTM D256
Izod Impact, Unnotched	0.854 J/cm	1.60 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
CTE, linear	36.0 µm/m-°C @Temperature 20.0 °C	20.0 µin/in-°F @Temperature 68.0 °F	Z-direction; ASTM D696

Thermal Properties	Metric $m/m\text{-}^\circ\text{C}$	English $in\text{-}^\circ\text{F}$	Comments
CTE, linear, Transverse to Flow	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	XZ direction, ASTM D698
Specific Heat Capacity	1.51 J/g- $^\circ\text{C}$	0.360 BTU/lb- $^\circ\text{F}$	ASTM D1269E
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft 2 - $^\circ\text{F}$	ASTM D1269E

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