

Premix Premi-Glas® 8101 Glass Reinforced Polyester BMC

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

Material Notes:

Description: Premi-Glas® 8101 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 Outstanding thermal resistance permits smaller, low profile headlamp designs Designed for high speed, automated injection molding processes Compatible with UV basecoats which are required prior to vacuum metallization Meets the requirements of GM GMP.UP.014 and Ford WSB-M3D171-A1 Available in grey or black Market: Forward Lighting Information provided by Premix.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Premi-Glas-8101-Glass-Reinforced-Polyester-BMC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.79 g/cc	1.79 g/cc	
Water Absorption	0.10 %	0.10 %	ASTM D570
Linear Mold Shrinkage	0.00030 cm/cm	0.00030 in/in	Polymerization Shrinkage

Mechanical Properties	Metric	English	Comments
Tensile Strength	30.0 MPa	4350 psi	ASTM D638
Tensile Modulus	11.0 GPa	1600 ksi	ASTM D638
Flexural Strength	65.0 MPa	9430 psi	ASTM D790
Flexural Modulus	5.00 GPa	725 ksi	Secant, 0.5 mm; ASTM D790
	@Temperature 150 °C	@Temperature 302 °F	
	10.0 GPa	1450 ksi	Secant, 0.5 mm; ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Poissons Ratio	0.30	0.30	
Shear Modulus	4.20 GPa	609 ksi	Calculated
Izod Impact, Notched	0.450 J/cm	0.843 ft-lb/in	ASTM D256
Izod Impact, Unnotched	0.850 J/cm	1.59 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.0 µm/m-°C	22.2 µin/in-°F	Z Direction
CTE, linear, Transverse to Flow	25.0 µm/m-°C	13.9 µin/in-°F	XY Direction

Thermal Properties	0.250 W/m-K Metric	1.74 BTU-in/hr-ft ² -°F English	Comments
Flame Spread Index	<= 35	<= 35	ASTM E162
NBS Smoke Density	<= 25	<= 25	Ds @ 4 minutes; ASTM E662

Processing Properties	Metric	English	Comments
Processing Temperature	160 °C	320 °F	Injection Molding
Clamp Pressure	<= 6.89 MPa	<= 1000 psi	Molding Pressure

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