

Premi-Glas® 8101

Bulk Molding Compound

PRODUCT DESCRIPTION

Glass fiber reinforced Polyester BMC suitable for automotive forward lighting applications.

GENERAL

Material Status	• Commercial: Active		
Availability	• North America • Asia Pacific	• Europe • South America	
Filler/Reinforcement	• Glass Fiber and mineral filler		
Features	• Excellent dimensional stability • Accepts UV-cure basecoats • Available in black/grey • Meets the requirements of GMP.UP.014 and Ford WSB-M3D171-A1		
Processing Method	• This BMC product is generally intended to be compression, injection or transfer molded in matched metal die molds, typically at 300°F (150°C) and 500 to 1,000 psi (35-65 BAR) molding pressure. Strength values may be affected by the molding process.		
Resin	• Unsaturated Polyester Composite		

PHYSICAL	Typical	Unit	Test Method
Density	1.79	g/cm ³	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.0003	in/in	ASTM D955
Water Absorption, 24 hrs, 23°C	0.1	%	ASTM D570
CLTE, X-Y plane	25	ppm/°C	ASTM E831
CLTE, Z plane	40	ppm/°C	ASTM E831
Poisson's Ratio	0.36		ASTM D638

MECHANICAL (As cut)	Typical	Unit	Test Method
Tensile Modulus	1.6 x 10 ⁶ (11)	psi (GPa)	ASTM D638
Tensile Strength	4,500 (30)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.5 x 10 ⁶ (10)	psi (GPa)	ASTM D790
Flexural Modulus (150 C)	0.7 x 10 ⁶ (5)	psi (GPa)	ASTM D790
Flexural Strength	9,500 (65)	psi (MPa)	ASTM D790

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IMPACT	Typical	Unit	Test Method
Izod Notched Impact Strength	0.8 (45)	ft-lb/in (J/m)	ASTM D256
Unnotched Impact Strength	1.6 (85)	ft-lb/in (J/m)	ASTM D4812

For additional information, please contact:

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