

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	• Meets the requirements of GMP. UP.014 and Ford WSB-M3D171 A1	• Available in black/grey
Processing Method	• This BMC product is generally intended to be compression, injection or transfer molded in matched metal 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		

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 E+6 (11)	psi (GPa)	ASTM D638
Tensile Strength	4,500 (30)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.5 E+6 (10)	psi (GPa)	ASTM D790
Flexural Modulus (150°C)	0.7 E+6 (5)	psi (GPa)	ASTM D790
Flexural Strength	9,500 (65)	psi (MPa)	ASTM D790
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

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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