

Product Description

Glass Fiber reinforced Polyester BMC, typical applications are headlamp reflectors and base frames.

General

Material Status	• Commercial: Active		
Availability	• North America • Asia Pacific	• Europe • South America	
Filler / Reinforcement	• Glass Fiber and Mineral Filler		
Features	• Good Dimensional Stability	• REACH and RoHS compliant	• Free of halogene
Processing Method	• This BMC product is generally intended to be injection 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		

Physical	Typical	Unit	Test Method
Density	1.9 - 2.1	g/cm ³	ISO 1183
Mold Shrinkage (RT mold/RT part)	-0.05 - 0.05 (-0.005 - 0.005)	% (in/in)	ISO 2577
Water Absorption, 24 hrs. 23°C	0.1 - 0.3	%	ISO 62
Poisson's Ratio	0.36		ISO 527
Heat Deflection Temperature – A	> 250	°C	ISO 75
Mechanical (As molded)	Typical	Unit	Test Method
Tensile Strength	4,350 - 6,500 (30 - 45)	psi (MPa)	ISO 527
Flexural Modulus (RT)	1.9 - 2.2E+6 (13,5 - 15.0)	psi (GPa)	ISO 178
Flexural Strength	13,000 - 17,400 (90 - 120)	psi (MPa)	ISO 178
Compressive Strength	16,000 - 20,000 (110 - 138)	psi (MPa)	ISO 604
Impact Strength, Charpy	15 - 25	kJ/m ²	ISO 179

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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