

Product Description

Glass Fiber reinforced Polyester BMC, typical applications include circuit breakers, insulators and contact holders.

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	• UL recognized - File E107758 • UL94-V0 @ 1.6 mm
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		

Physical	Typical	Unit	Test Method
Density	1.7 - 1.9	g/cm ³	ISO 1183
Mold Shrinkage (RT mold/RT part)	0,02 - 0,2 (0.0002 - 0.002)	% (in/in)	ISO 2755
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	3,600 - 7,200 (25 - 50)	psi (MPa)	ISO 527
Flexural Modulus (RT)	1.4 - 2.0E+6 (10 - 14)	psi (GPa)	ISO 178
Flexural Strength	13,000 - 19,000 (90 - 130)	psi (MPa)	ISO 178
Compressive Strength	16,000 - 20,000 (110 - 138)	psi (MPa)	ISO 604
Impact Strength, Charpy	10 - 30	kJ/m ²	ISO 179

Electrical	Typical	Unit	Test Method
Surface resistivity	10 ¹²	Ω	IEC 60093
Volume resistivity	10 ¹⁴	Ωcm	IEC 60093
Electric strength	15-20	kV/mm	IEC 60243
Tracking resistance	600	CTI	IEC 60112
Arc resistance	180 - 210	s	ASTM D 495

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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