

**Product Description**

Glass Fiber reinforced Polyester BMC suitable for circuit breakers, insulators, bobbins and electrical connectors.

**General**

Material Status	• Commercial: Active
Availability	• North America • Asia Pacific • Europe • South America
Filler / Reinforcement	• Glass Fiber and Mineral Filler
Features	• High Strength • UL Recognized – File E69414 • Medium Shrink • UL94-V0 @ 1.5 mm
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. It can be supplied in bulk or extruded in pre-weighted slugs.
Resin	• Unsaturated Polyester

Physical	Typical	Unit	Test Method
Density	1.83 – 2.03	g/cm <sup>3</sup>	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.002 – 0.003	in/in	ASTM D955
Hardness, Barcol	45 – 50	Barcol Units	ASTM D2583
Poisson's Ratio	0.36		ASTM D638
Mechanical (As molded)	Typical	Unit	Test Method
Tensile Strength	8,500 – 10,500 (58 – 72)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.7 – 1.8 E+6 (11.7 – 12.4)	psi (GPa)	ASTM D790
Flexural Strength	17,000 – 21,000 (117 – 144)	psi (MPa)	ASTM D790
Compressive Strength	18,600 – 22,600 (128 – 155)	psi (MPa)	ASTM D695
Impact	Typical	Unit	Test Method
Izod Notched Impact Strength	5 – 7 (267 – 373)	ft-lb/in (J/m)	ASTM D256
Thermal	Typical	Unit	Test Method
Heat Deflection Temperature	500+ (260+)	°F (°C)	ASTM D648
UL RTI, Electrical	266 (130)	°F (°C)	UL 746B
UL RTI, Mechanical with Impact	266 (130)	°F (°C)	UL 746B
UL RTI, Mechanical without Impact	266 (130)	°F (°C)	UL 746B
Flammability	Typical	Unit	Test Method
Flammability	Pass 0.060 (1.5)	in (mm)	UL94 V-0
Electrical	Typical	Unit	Test Method
Dielectric Strength	335 – 385 (13.2 – 15.2)	Volts/mil (kV/mm)	ASTM D149
Arc Track Resistance	185+	seconds	ASTM D495
Comparative Tracking Index	500+	volts	ASTM D3638

#### **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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