

**Product Description**

Glass Fiber reinforced Polyester BMC suitable for electrical circuit breakers, switchgear and other applications where fire retardance is required.

**General**

Material Status	• Commercial: Active		
Availability	• North America • Asia Pacific	• Europe • South America	
Filler / Reinforcement	• Glass Fiber and Mineral Filler		
Features	• Non-Halogen FR technology • UL Recognized File – E69414	• Good dimensional stability • UL94-V-0 @ 1.6 mm	• Excellent electrical properties
Processing Method	• This BMC product is generally intended to be compression or injection 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. Extrusions available.		
Resin	• Unsaturated Polyester		

Physical	Typical	Unit	Test Method
Density	1.80 – 1.95	g/cm <sup>3</sup>	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.0015 – 0.0030	in/in	ASTM D955
CLTE, X – Y plane	25	ppm/°C	ASTM E831
CLTE, Z plane	35	ppm/°C	ASTM E831
Poisson's Ratio	0.36		ASTM D638
Mechanical (As cut)	Typical	Unit	Test Method
Tensile Modulus	1.8 E+6 (12)	psi (GPa)	ASTM D638
Tensile Strength	4,800 (33)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.4 E+6 (9.7)	psi (GPa)	ASTM D790
Flexural Strength	13,500 (93)	psi (MPa)	ASTM D790
Impact	Typical	Unit	Test Method
Izod Notched Impact Strength	6 (320)	ft-lb/in (J/m)	ASTM D256
Unnotched Impact Strength	9 (480)	ft-lb/in (J/m)	ASTM D4812
Thermal	Typical	Unit	Test Method
Heat Deflection Temperature, 264 psi	400+ (200+)	°F (°C)	ASTM D792
Thermal Conductivity, 25°C	0.3	W/m - °K	ASTM E1461
UL RTI, Electrical	266 (130)	°F (°C)	UL 746C
UL RTI, Mechanical with Impact	266 (130)	°F (°C)	UL 746C
UL RTI, Mechanical without Impact	266 (130)	°F (°C)	UL 746C
Flammability	Typical	Unit	Test Method
Flammability	Pass 0.063 (1.6)	in (mm)	UL94-V0
Flammability	Pass 0.102 (2.6)	in (mm)	UL94-5V
Electrical	Typical	Unit	Test Method
Dielectric Strength	450 (18)	Volts/mil (kV/mm)	ASTM D149
Arc Track Resistance	220+	seconds	ASTM D495

#### **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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