

**Product Description**

Glass Fiber reinforced Polyester BMC suitable for circuit breakers, electric motor housings and end bells, HVAC drain pans, power tool housings and structural parts.

**General**

Material Status	• Commercial: Active		
Availability	• North America	• Europe	
	• Asia Pacific	• South America	
Filler / Reinforcement	• Glass Fiber and Mineral Filler		
Features	• Outstanding Flow	• Excellent electrical properties	• Low shrink
	• UL94-V0 @ 1.5 mm	• UL Recognized – File E69414	
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. Can be supplied in bulk or extruded form.		
Resin	• Unsaturated Polyester		

Physical	Typical	Unit	Test Method
Density	1.8	g/cm <sup>3</sup>	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.001 - 0.003	in/in	ASTM D955
Water Absorption, 24 hrs., 23°C	<0.24	%	ASTM D570
Hardness, Barcol	35 – 45	Barcol Units	ASTM D2583
Poisson's Ratio	0.36		ASTM D638
Mechanical (As molded)	Typical	Unit	Test Method
Tensile Modulus	1.9 E+6 (13.1)	psi (GPa)	ASTM D638
Tensile Strength	7,000 (48)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.8 E+6 (12.4)	psi (GPa)	ASTM D790
Flexural Strength	18,500 (127)	psi (Mpa)	ASTM D790
Compressive Strength	21,000 (145)	psi (Mpa)	ASTM D695
Impact	Typical	Unit	Test Method
Izod Notched Impact Strength	7 (370)	ft-lb/in (J/m)	ASTM D256
Thermal	Typical	Unit	Test Method
Heat Deflection Temperature, 264 PSI	>500 (>260)	°F (°C)	ASTM D648
UL RTI, Electrical	266 (130)	°C	UL 746B
UL RTI, Mechanical with Impact	266 (130)	°C	UL 746B
UL RTI, Mechanical without Impact	266 (130)	°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	500 (20)	Volts/mil (kV/mm)	ASTM D149
Arc Track Resistance	180+	seconds	ASTM D495
Comparative Tracking Index	500 - 600	volts	ASTM D2303
Hot Wire Ignition, HWI	60 – 119	sec	ASTM D3874
High Amp Arc Ignition, HAI	> 120	arcs	UL746A
High Voltage Arc Tracking Rate, HVTR	< 10	mm/min	UL746A

#### **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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