

**Product Description**

Glass fiber reinforced Polyester BMC suitable for molded replacements for die castings, buss supports, circuit breaker housings, phase separators and contractor blocks.

**General**

Material Status	• Commercial: Active		
Availability	• North America	• Europe	
	• Asia Pacific	• South America	
Filler / Reinforcement	• Glass Fiber and Mineral Filler		
Features	• UL Recognized – File E69414	• High impact strength	• Excellent flame resistance
	• Excellent electrical properties	• UL94-V0 @ 1.7 mm RD, BK	
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. Bulk form only.		
Resin	• Unsaturated Polyester		

Physical	Typical	Unit	Test Method
Density	1.73 – 1.79	g/cm <sup>3</sup>	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.0026 - 0.0038	in/in	ASTM D955
Water Absorption, 24 hrs., 23°C	0.14	%	ASTM D570
Hardness, Barcol	30 – 40	Barcol Units	ASTM D2583
Poisson's Ratio	0.36		ASTM D638
Mechanical (As molded)	Typical	Unit	Test Method
Tensile Strength	6,000 – 8,000 (41 – 55)	psi (MPa)	ASTM D638
Flexural Strength	18,000 – 21,500 (124 – 148)	psi (Mpa)	ASTM D790
Compressive Strength	18,000 – 22,000 (124 – 150)	psi (Mpa)	ASTM D695
Impact	Typical	Unit	Test Method
Izod Notched Impact Strength	6 – 9 (320 – 480)	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)	°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 0.067 (1.7)	in (mm)	UL94 V-0 RD, BK
Flammability	Pass 0.079 (2.0)	in (mm)	UL94 V-0 All
Electrical	Typical	Unit	Test Method
Dielectric Strength	360 (14.1)	Volts/mil (kV/mm)	ASTM D149
Arc Track Resistance	190+	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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