

Product Description

Glass Fiber reinforced Polyester BMC suitable as a direct replacement for aluminum die casting applications. Black or natural only.

General

Material Status	• Commercial: Active		
Availability	• North America • Asia Pacific	• Europe • South America	
Filler / Reinforcement	• Glass Fiber and Mineral Filler		
Features	• Good dimensional stability • UL Recognized – File E69414	• Excellent mechanical properties • UL94-V0 @ 1.8 mm (Black/Natural)	
Processing Method	• This BMC product is generally intended to be compression or stuffer 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. It can be supplied in bulk or in pre-weighed slugs.		
Resin	• Unsaturated Polyester		

Physical	Typical	Unit	Test Method
Density	1.68 – 1.88	g/cm ³	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.001 – 0.002	in/in	ASTM D955
Hardness, Barcol	50 – 60	Barcol Units	ASTM D2583
Poisson's Ratio	0.36		ASTM D638
Mechanical (As molded)	Typical	Unit	Test Method
Tensile Strength	10,000 – 12,000 (70 – 82)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.4 – 1.6 E+6 (9.6 – 11)	psi (GPa)	ASTM D790
Flexural Strength	18,700 – 22,700 (130 - 155)	psi (MPa)	ASTM D790
Compressive Strength	19,300 – 23,300 (130 - 160)	psi (MPa)	ASTM D695
Impact	Typical	Unit	Test Method
Izod Notched Impact Strength	11 – 13 (580 – 700)	ft-lb/in (J/m)	ASTM D256
Thermal	Typical	Unit	Test Method
Heat Deflection Temperature	>500 (260)	°F (°C)	ASTM D648
Flammability	Typical	Unit	Test Method
Flammability	0.071 (1.8)	in (mm)	UL94 V-0
Electrical	Typical	Unit	Test Method
Dielectric Strength	335 – 385 (13.2 – 15.1)	Volts/mil (kV/mm)	ASTM D149
Arc Track Resistance	>190	seconds	ASTM D495
Comparative Tracking Index	500+	volts	ASTM D2303

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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