

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	• General purpose • UL Recognized – File E69414	• Outstanding flow	• UL94-V0 @ 1.5 mm BK, GY ONLY
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 logs, pre-weighed slugs or bulk forms.		
Resin	• Unsaturated Polyester		

Physical	Typical	Unit	Test Method
Density	1.83 – 2.03	g/cm ³	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.0025 – 0.003	in/in	ASTM D955
Hardness, Barcol	30 – 40	Barcol Units	ASTM D2583
Poisson's Ratio	0.36		ASTM D638
Mechanical (As molded)	Typical	Unit	Test Method
Tensile Strength	6,900 – 8,900 (47 – 61)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.2 – 1.4 E+6 (8.2 – 9.6)	psi (GPa)	ASTM D790
Flexural Strength	14,500 – 18,500 (100 – 127)	psi (MPa)	ASTM D790
Compressive Strength	19,500 – 23,500 (134 – 162)	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 0.06 (1.5)	in (mm)	UL94 V-0, BK GY ONLY
Electrical	Typical	Unit	Test Method
Dielectric Strength	365 – 415 (14.3 – 16.3)	Volts/mil (kV/mm)	ASTM D149
Arc Track Resistance	180+	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/>.

© LyondellBasell Industries Holdings, B.V. 2019

Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.