

Product Description

Glass fiber reinforced Polyester BMC suitable for transformer bobbins, terminal boards, arc chutes and contactors.

General

| | | | |
|------------------------|--|--|--|
| Material Status | • Commercial: Active | | |
| Availability | • North America • Asia Pacific | • Europe • South America | |
| Filler / Reinforcement | • Glass Fiber and Mineral Filler | | |
| Features | • UL Recognized – File E69414 • Outstanding Flame Resistance | • Excellent Arc Resistance • UL94 V0 @ 1.1 mm | |
| 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. Available in extruded logs, slugs or bulk form. | | |
| Resin | • Unsaturated Polyester | | |

| Physical | Typical | Unit | Test Method |
|--------------------------------------|-----------------------------|-------------------|-----------------|
| Density | 1.89 – 1.95 | g/cm ³ | ASTM D792 |
| Mold Shrinkage (RT mold/RT part) | 0.0025 - 0.0046 | in/in | ASTM D955 |
| Water Absorption, 24 hrs., 23°C | 0.10 | % | ASTM D570 |
| Hardness, Barcol | 28 – 43 | 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 | 14,000 – 18,000 (96 – 124) | psi (Mpa) | ASTM D790 |
| Compressive Strength | 24,000 – 28,000 (165 – 193) | psi (Mpa) | ASTM D695 |
| Impact | Typical | Unit | Test Method |
| Izod Notched Impact Strength | 2 – 4 (106 – 213) | 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 0.043 (1.1) | in (mm) | UL94 V-0 NC, BK |
| Electrical | Typical | Unit | Test Method |
| Dielectric Strength | 360 (14.1) | Volts/mil (kV/mm) | ASTM D149 |
| Arc Track Resistance | 210+ | seconds | ASTM D495 |
| Comparative Tracking Index | 600+ | 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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