

**Product Description**

Glass Fiber reinforced Polyester BMC suitable for Automotive Headlamp, Fog Lamp Reflectors and Automotive Body Panels.

**General**

|                        |   |   |  |
|------------------------|---|---|--|
| Material Status        | • Commercial: Active  |   |  |
| Availability           | • North America<br>• Asia Pacific   | • Europe<br>• South America                                       |  |
| Filler / Reinforcement | • Glass Fiber and Mineral Filler  |   |  |
| Features               | • Excellent adhesion characteristics  | • Can be coated using traditional or electrostatic coating system |  |
| Processing Method      | • This BMC product is generally intended to be 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. Can be supplied in logs, slugs or bulk. |   |  |
| Resin                  | • Unsaturated Polyester   |   |  |

| Physical                         | Typical          | Unit              | Test Method               |
|----------------------------------|------------------|-------------------|---------------------------|
| Density                          | 1.89             | g/cm <sup>3</sup> | ASTM D792                 |
| Mold Shrinkage (RT mold/RT part) | 0.000            | in/in             | ASTM D955                 |
| Water Absorption, 24 hrs., 23°C  | 0.1 - 0.2        | %                 | ASTM D570                 |
| Hardness, Barcol                 | 40 – 50          | Barcol Units      | ASTM D2583                |
| Poisson's Ratio                  | 0.36             |                   | ASTM D638                 |
| Mechanical (As molded)           | Typical          | Unit              | Test Method               |
| Tensile Strength                 | 6,100 (42)       | psi (MPa)         | ASTM D638                 |
| Tensile Modulus                  | 2.4 E+6 (16.5)   | psi (MPa)         | ASTM D638                 |
| Flexural Modulus (RT)            | 2.01 E+6 (13.8)  | psi (GPa)         | ASTM D790                 |
| Flexural Strength                | 11,000 (75)      | psi (Mpa)         | ASTM D790                 |
| Impact                           | Typical          | Unit              | Test Method               |
| Izod Notched Impact Strength     | 3.7 (197)        | ft-lb/in (J/m)    | ASTM D256                 |
| Thermal                          | Typical          | Unit              | Test Method               |
| Heat Deflection Temperature      | TBD              | °F (°C)           | ASTM D648                 |
| Flammability                     | Typical          | Unit              | Test Method               |
| Flammability                     | Pass 0.125 (3.2) | in (mm)           | UL94 HB** (NOT UL LISTED) |

#### **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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\*\* Product is not UL listed.