

Product Description

Glass Fiber reinforced Polyester SMC suitable for body panel, structural and semi-structural applications. A portion of the resin matrix is derived from non-petroleum, renewable resource feedstock.

General

| | |
|------------------------|---|
| Material Status | • Commercial: Active |
| Availability | • North America • South America |
| Filler / Reinforcement | • Glass Fiber and Mineral Filler |
| Features | • Contains Bio-Based Content • Unpigmented or grey colors • Excellent Surface Profile • Accepts automotive primers and powder in-mold coatings • Low moisture absorption |
| Processing Method | • This SMC product is generally intended to be compression 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. |
| Resin | • Unsaturated Polyester |

| Physical | Typical | Unit | Test Method |
|----------------------------------|--------------|-------------------|-------------|
| Density | 1.92 | g/cm ³ | ASTM D792 |
| Mold Shrinkage (RT mold/RT part) | -0.00008 | in/in | ASTM D955 |
| Water Absorption, 24 hrs., 23°C | 0.14 | % | ASTM D570 |
| CLTE, X – Y plane | 13 | ppm/°C | ASTM E831 |
| CLTE, Z plane | 27 | ppm/°C | ASTM E831 |
| Poisson's Ratio | 0.30 | | ASTM D638 |
| Mechanical (As Molded) | Typical | Unit | Test Method |
| Tensile Modulus | 2.0 E+6 (14) | psi (GPa) | ASTM D638 |
| Tensile Strength | 14,000 (100) | psi (MPa) | ASTM D638 |
| Flexural Modulus (RT) | 1.5 E+6 (10) | psi (GPa) | ASTM D790 |
| Flexural Strength | 32,000 (220) | psi (MPa) | ASTM D790 |
| Impact | Typical | Unit | Test Method |
| Izod Notched Impact Strength | 19 (1000) | ft-lb/in (J/m) | ASTM D256 |
| Unnotched Impact Strength | 30 (1600) | ft-lb/in (J/m) | ASTM D4812 |
| Thermal | Typical | Unit | Test Method |
| Glass Transition T _g | 392 (200) | °F (°C) | ASTM D4065 |
| Thermal Conductivity | 0.56 | W/m-°K | ASTM E1461 |

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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