

Product Description

Glass fiber reinforced Polyester SMC suitable for general purpose applications requiring thermal stability and stiffness.

General

Material Status	• Commercial: Active
Availability	• North America • South America
Filler / Reinforcement	• Glass Fiber and Mineral Filler
Features	• Excellent property retention in cold/hot environments
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	1.70 – 1.85	g/cm ³	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.002 – 0.0035	in/in	ASTM D955
CLTE, X – Y plane	25	ppm/°C	ASTM E831
CLTE, Z plane	35	ppm/°C	ASTM E831
Poisson's Ratio	.30	Psi (MPa)	ASTM D638
Mechanical (As cut)	Typical	Unit	Test Method
Tensile Modulus	1.6 E+6 (11)	psi (GPa)	ASTM D638
Tensile Strength	3,000 (20)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.4 E+6 (9.5)	psi (GPa)	ASTM D790
Flexural Strength	10,000 (70)	psi (MPa)	ASTM D790
Compressive Strength	17,500 (120)	psi (MPa)	ASTM D695
Impact	Typical	Unit	Test Method
Izod Notched Impact Strength	5.8 (310)	ft-lb/in (J/m)	ASTM D256
Unnotched Impact Strength	6.8 (365)	ft-lb/in (J/m)	ASTM D4812

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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