

Product Description

Glass Fiber reinforced vinyl ester SMC suitable for structural applications.

General

Material Status	• Commercial: Active		
Availability	• North America	• South America	
Filler / Reinforcement	• Glass Fiber and Mineral Filler		
Features	• Excellent stiffness to weight ratio • Creep resistant	• Excellent resistance to automotive chemicals and salt spray	• Excellent property retention in hot and cold 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 vinyl ester		

Physical	Typical	Unit	Test Method
Density	1.80	g/cm ³	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.00075	in/in	ASTM D955
CLTE, X – Y plane	20	ppm/°C	ASTM E831
CLTE, Z plane	35	ppm/°C	ASTM E831
Poisson's Ratio	0.33		ASTM D638

Mechanical (As Cut)	Typical	Unit	Test Method
Tensile Modulus	1.9 E+6 (13)	psi (GPa)	ASTM D638
Tensile Strength	20,500 (140)	psi (MPa)	ASTM D638
Tensile Elongation	1.3%	%	ASTM D638
Flexural Modulus (RT)	2.0 E+6 (14)	psi (GPa)	ASTM D790
Flexural Strength	39,000 (270)	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	32 (1700)	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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