

Product Description

Glass Fiber reinforced Polyester with a 53% nominal glass fiber content. Engineered for fuel tank protective heat shields and other structural or semi-structural applications.

General

Material Status	• Commercial: Active		
Availability	• North America	• South America	
Filler / Reinforcement	• Glass Fiber and Mineral Filler		
Features	• Excellent flow and fill • Flame resistant per ISO 3795	• Excellent strength to weight mechanicals	• Outstanding impact performance including cold impact
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	1.73	g/cm ³	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.00146	in/in	ASTM D955
Water Absorption, 24 hrs., 24°C	0.20	%	ASTM D570
CLTE, X – Y plane	18	ppm/°C	ASTM E831
CLTE, Z plane	42	ppm/°C	ASTM E831
Mechanical (As Cut)	Typical	Unit	Test Method
Tensile Modulus	1.9 E+6 (13)	psi (GPa)	ASTM D638
Tensile Strength	24,000 (165)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.7 E+6 (12)	psi (GPa)	ASTM D790
Flexural Strength	45,000 (310)	psi (MPa)	ASTM D790
Compressive Strength	31,000 (215)	psi (MPa)	ASTM D695
Impact	Typical	Unit	Test Method
Izod Notched Impact Strength	18 (950)	ft-lb/in (J/m)	ASTM D256
Izod Notched Impact Strength -40°C	20.5 (1100)	ft-lb/in (J/m)	ASTM D4812
Thermal	Typical	Unit	Test Method
Heat Deflection Temperature	>572°F (>300°C)	°F (°C)	ASTM D648
Flammability	Typical	Unit	Test Method
Flammability	3	mm/minute	ISO 3795

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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