

Product Description

Glass Fiber reinforced Polyester SMC suitable for electrical, flame retardant and HVAC applications.

General

Material Status	• Commercial: Active		
Availability	• North America	• South America	
Filler / Reinforcement	• Glass Fiber and Mineral Filler		
Features	• UL Recognized – File E69414 • UL94-V0 @2.3mm	• Non-Halogen FR Technology • Pigment for molded-in color	• Suitable for outdoor use in applications in accordance with UL746 C (f1)
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	1.75 – 1.85	g/cm ³	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.001 – 0.0025	in/in	ASTM D955
Water Absorption, 24 hrs., 23°C	0.2	%	ASTM D570
CLTE, X – Y plane	15	ppm/°C	ASTM E831
CLTE, Z plane	20	ppm/°C	ASTM E831
Poisson's Ratio	0.3		ASTM D638
Mechanical (As Cut)	Typical	Unit	Test Method
Tensile Modulus	1.4 E+6 (10)	psi (GPa)	ASTM D638
Tensile Strength	7,000 (50)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.3 E+6 (9)	psi (GPa)	ASTM D790
Flexural Strength	19,000 (130)	psi (MPa)	ASTM D790
Impact	Typical	Unit	Test Method
Izod Notched Impact Strength	10 (550)	ft-lb/in (J/m)	ASTM D256
Unnotched Impact Strength	13 (700)	ft-lb/in (J/m)	ASTM D4812
Thermal	Typical	Unit	Test Method
Heat Deflection Temperature	>480 (>250)	°F (°C)	ASTM D648
Thermal Conductivity, 25°C	0.36	W/m-°K	ASTM E1461
UL RTI, Electrical	266 (130)	°F (°C)	UL 746B
UL RTI, Mechanical, with Impact	266 (130)	°F (°C)	UL 746B
UL RTI, Mechanical, without Impact	266 (130)	°F (°C)	UL 746B
Flammability	Typical	Unit	Test Method
Flammability	Pass 0.091 (2.3)	in (mm)	UL94 5VA, V0
Electrical	Typical	Unit	Test Method
Dielectric Strength	460 (18)	Volts/mil (kV/mm)	ASTM D149
Arc Track Resistance	180+	seconds	ASTM D495
Comparative Tracking Index	600	volts	ASTM D2303

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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