

**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	• 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 <sup>3</sup>	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.001 – 0.0025	in/in	ASTM D955
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	1.3 E+6 (9)	psi (GPa)	ASTM D638
Tensile Strength	6,000 (40)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.3 E+6 (9)	psi (GPa)	ASTM D790
Flexural Strength	16,500 (115)	psi (MPa)	ASTM D790
Impact	Typical	Unit	Test Method
Izod Notched Impact Strength	9 (490)	ft-lb/in (J/m)	ASTM D256
Unnotched Impact Strength	12 (650)	ft-lb/in (J/m)	ASTM D4812
Thermal	Typical	Unit	Test Method
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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