

Product Description

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

General

Material Status	• Commercial: Active
Availability	• North America • South America
Filler / Reinforcement	• Glass Fiber and Mineral Filler
Features	<ul style="list-style-type: none"> • Excellent property retention in cold/hot environments • Suitable for outdoor use in accordance with UL746C (f1) • UL Recognized – File E69414 • UL94-HB @ 1.5mm
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)	0.0015 – 0.0025	in/in	ASTM D955
CLTE, X – Y plane	25	ppm/°C	ASTM E831
CLTE, Z plane	35	ppm/°C	ASTM E831
Poisson's Ratio	0.30		ASTM D638

Mechanical (As cut)	Typical	Unit	Test Method
Tensile Modulus	1.8 E+6 (12.4)	psi (GPa)	ASTM D638
Tensile Strength	11,000 (75)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.6 E+6 (11)	psi (GPa)	ASTM D790
Flexural Strength	26,000 (180)	psi (MPa)	ASTM D790
Compressive Strength	31,000 (215)	psi (MPa)	ASTM D695

Impact	Typical	Unit	Test Method
Izod Notched Impact Strength	15 (800)	ft-lb/in (J/m)	ASTM D256
Unnotched Impact Strength	22 (1150)	ft-lb/in (J/m)	ASTM D4812

Thermal	Typical	Unit	Test Method
Thermal Conductivity, 25°C	0.30	W/m-°K	ASTM E1461
UL RTI, Electrical	266 (130)	°F (°C)	UL 746C
UL RTI, Mechanical with Impact	266 (130)	°F (°C)	UL 746C
UL RTI, Mechanical without Impact	266 (130)	°F (°C)	UL 746C

Flammability	Typical	Unit	Test Method
Flammability	Pass 0.60 (1.5)	in (mm)	UL94 HB

Electrical	Typical	Unit	Test Method
Dielectric Strength	380 (15)	Volts/mil (kV/mm)	ASTM D149
Arc Track Resistance	180	seconds	ASTM D495

Technical Data Sheet
Premi-Glas 1200H-30
Engineered Composites



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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