

Technical Data Sheet
Premi-Glas 1200-15
 Engineered Composites



Product Description

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

General

Material Status	• Commercial: Active
Availability	• North America • South America
Filler / Reinforcement	• Glass Fiber and Mineral Filler
Features	• Excellent stiffness to weight • Excellent property retention in cold/hot environments • Good corrosion resistance except in acid 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 Polyester

Physical	Typical	Unit	Test Method
Density	1.70 – 1.85	g/cm ³	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.0015 – 0.003	in/in	ASTM D955
CLTE, X – Y plane	25	ppm/°C	ASTM E831
CLTE, Z plane	35	ppm/°C	ASTM E831
Poisson's Ratio	0.3		ASTM D638
Mechanical (As cut)	Typical	Unit	Test Method
Tensile Modulus	1.7 E+6 (12)	psi (GPa)	ASTM D638
Tensile Strength	5,000 (35)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.4 E+6 (9.5)	psi (GPa)	ASTM D790
Flexural Strength	14,000 (95)	psi (MPa)	ASTM D790
Compressive Strength	21,000 (145)	psi (MPa)	ASTM D695
Impact	Typical	Unit	Test Method
Izod Notched Impact Strength	8 (425)	ft-lb/in (J/m)	ASTM D256
Unnotched Impact Strength	20 (1068)	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/>.

© LyondellBasell Industries Holdings, B.V. 2019

Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.