Technical Data Sheet

Premi-glas 1205

Thermoset, Unspecified
LyondellBasell Industries
Engineering Plastics

Product Description

Premi-Glas® 1205 is a fiberglass reinforced thermoset sheet molding compound for residential entry door skins and other general purpose applications.

Key Features and Benefits:

- Good warp resistance and dimensional repeatability.
- Good flow and fill in thin moldings.
- Excellent resistance to sagging and distortion during door assembly.
- Outstanding appearance in wood-grain texture or smooth skin applications.
- Standard colors are beige and white.

General		
Material Status	• Commercial: Active	
Availability	• North America	
Filler / Reinforcement	• Glass Fiber	
Features	• Good Dimensional Stability • Good Flow	• Good Surface Finish • Warp Resistant
Uses	• Construction Applications	• General Purpose
Appearance	• Beige	• White
Forms	• SMC - Sheet Molding Compound	

Physical	Nominal Value (English)	Nominal Value (SI)	
Density / Specific Gravity	1.80	1.80 g/cm³	
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus (Compression Molded)	1.50E+6 psi	10300 MPa	ASTM D638
Tensile Strength (Compression Molded)	6000 psi	41.4 MPa	ASTM D638
Tensile Elongation (Break)	0.80 %	0.80 %	ASTM D638
Flexural Modulus (Compression Molded)	1.50E+6 psi	10300 MPa	ASTM D790
Flexural Strength (Compression Molded)	16000 psi	110 MPa	ASTM D790
Poisson's Ratio	0.30	0.30	
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact (Compression Molded)	10 ft·lb/in	530 J/m	ASTM D256
Unnotched Izod Impact (Compression Molded)	12 ft·lb/in	640 J/m	ASTM D4812
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	
CLTE			
Flow [1]	1.4E-5 in/in/°F	2.5E-5 cm/cm/°C	
Transverse [2]	1.9E-5 in/in/°F	3.5E-5 cm/cm/°C	
Thermal Conductivity	2.1 Btu·in/hr/ft²/°F	0.30 W/m/K	

Notes

[1] XY Direction

[2] Z Direction

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.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

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Company Information

For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

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