

Technical Data Sheet



Premi-glas 1200H-20

Thermoset, Unspecified
LyondellBasell Industries
Engineering Plastics

Product Description

Premi-Glas® 1200H-20 is a fiberglass-reinforced thermoset sheet molding compound for general purpose applications requiring thermal stability and stiffness.

Key Features and Benefits:

- Good dimensional stability, including excellent thermal resistance.
- Pigmentable for molded-in color; best appearance with mold texture.
- Excellent property retention in cold and hot environments.
- Suitable for outdoor use in applications involving UV exposure and water immersion in accordance with UL746C (f1), see File E42524

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber
Features	• Good Dimensional Stability • Good Thermal Stability • High Stiffness
Uses	• General Purpose • Outdoor Applications
UL File Number	• E42524
Forms	• SMC - Sheet Molding Compound

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Outdoor Suitability	f1	f1	UL 746C
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus (Compression Molded)	1.70E+6 psi	11700 MPa	ASTM D638
Tensile Strength (Compression Molded)	7000 psi	48.3 MPa	ASTM D638
Flexural Modulus (Compression Molded)	1.50E+6 psi	10300 MPa	ASTM D790
Flexural Strength (Compression Molded)	18000 psi	124 MPa	ASTM D790
Compressive Strength ¹	24000 psi	165 MPa	ASTM D695
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)	15 ft·lb/in	800 J/m	ASTM D4812
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
CLTE			
Flow ²	1.4E-5 in/in/°F	2.5E-5 cm/cm/°C	
Transverse ³	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	
RTI Elec	266 °F	130 °C	UL 746B
RTI Imp	266 °F	130 °C	UL 746B
RTI Str	266 °F	130 °C	UL 746B
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Dielectric Strength ¹	380 V/mil	15 kV/mm	ASTM D149
Arc Resistance ¹	180 sec	180 sec	ASTM D495
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.06 in (1.5 mm))	HB	HB	UL 94

Notes

¹ Compression Molded

² XY Direction

³ Z Direction

Notes

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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

Company Information

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

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