Technical Data Sheet

LyondellBasell

Premi-glas 1200H-10

Thermoset, Unspecified
LyondellBasell Industries
Engineering Plastics

Product Description

Premi-Glas® 1200H-10 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	• Corrosion Resistant • 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
Density / Specific Gravity	1.70 to 1.85	1.70 to 1.85 g/cm³	
Outdoor Suitability	f1	f1	UL 746C
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus	1.60E+6 psi	11000 MPa	ASTM D638
Tensile Strength (Compression Molded)	3000 psi	20.7 MPa	ASTM D638
Flexural Modulus (Compression Molded)	1.40E+6 psi	9650 MPa	ASTM D790
Flexural Strength (Compression Molded)	10000 psi	68.9 MPa	ASTM D790
Compressive Strength [1]	17500 psi	121 MPa	ASTM D695
Poisson's Ratio	0.30	0.30	
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact (Compression Molded)	5.8 ft·lb/in	310 J/m	ASTM D256
Unnotched Izod Impact (Compression Molded)	6.8 ft·lb/in	360 J/m	ASTM D4812
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
CLTE			
Flow	1.4E-5 in/in/°F	2.5E-5 cm/cm/°C	
Transverse	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	380 V/mil	15 kV/mm	ASTM D149
Arc Resistance	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

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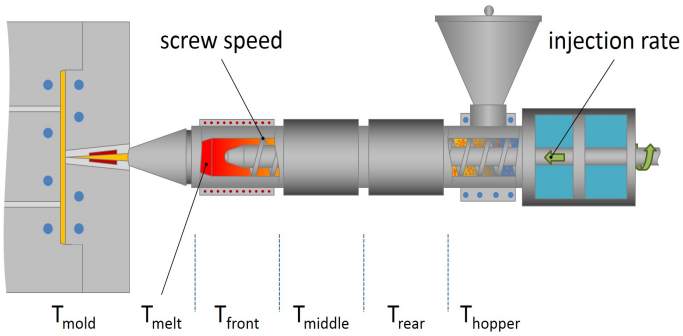

Injection	Nominal Value (English)	Nominal Value (SI)
Mold Temperature	300 °F	149 °C
Injection Pressure	500 to 1000 psi	3.45 to 6.89 MPa

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Notes

[1] Compression Molded

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

Company Information

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

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