

Technical Data Sheet

**Premi-glas 1266**

Thermoset, Unspecified
LyondellBasell Industries
Engineering Plastics

Product Description

Premi-Glas® 1266 is a fiberglass reinforced thermoset Thick Molding Compound for composite powertrain applications such as valve covers and timing gear covers. It uses a hybrid vinyl ester/polyester resin system for an excellent combination of cost and performance.

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber
Features	• Chemical Resistant • Salt Water/Spray Resistant
Uses	• Metal Replacement
Forms	• TMC - Thick Molding Compound
Processing Method	• Compression Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.74	1.74 g/cm ³	
Water Absorption (Saturation, 73°F (23°C))	0.20 %	0.20 %	ISO 62
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	1.74E+6 psi	12000 MPa	ISO 527-1
Tensile Stress (Break)	5800 psi	40.0 MPa	ISO 527-2
Flexural Modulus - Tangent	1.45E+6 psi	10000 MPa	ISO 178
Flexural Stress	11600 psi	80.0 MPa	ISO 178
Poisson's Ratio	0.27	0.27	
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Unnotched Izod Impact Strength	4.8 ft·lb/in ²	10 kJ/m ²	ISO 180
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	> 518 °F	> 270 °C	ISO 75-2/A
Glass Transition Temperature	399 °F	204 °C	ASTM D4065
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	2.8 Btu·in/hr/ft ² /°F	0.40 W/m/K	

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Injection	Nominal Value (English)	Nominal Value (SI)
Mold Temperature	320 °F	160 °C
Injection Pressure	1000 psi	6.89 MPa

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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

Company Information

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

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