

Technical Data Sheet

**Premi-ject 1102H**

Thermoset, Unspecified
LyondellBasell Industries
Engineering Plastics

Product Description

Premi-Ject® 1102H is a fiberglass reinforced thermoset bulk molding compound for coil encapsulation applications.

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber
UL File Number	• E42524
Appearance	• Black • Blue
Forms	• BMC - Bulk Molding Compound
Processing Method	• Injection Molding • Resin Transfer Molding

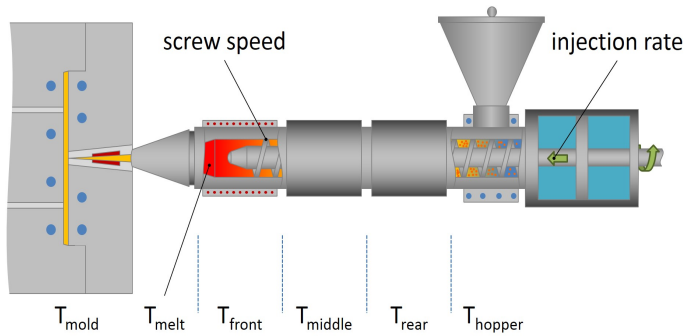
Physical	Nominal Value (English)	Nominal Value (SI)	
Density / Specific Gravity	1.85 to 1.95	1.85 to 1.95 g/cm ³	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	1.31E+6 psi	9000 MPa	ASTM D638
Tensile Strength	3770 psi	26.0 MPa	ASTM D638
Tensile Elongation (Break)	0.40 %	0.40 %	ASTM D638
Flexural Modulus	1.31E+6 psi	9000 MPa	ASTM D790
Flexural Strength	9860 psi	68.0 MPa	ASTM D790
Poisson's Ratio	0.30	0.30	
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	7.0 ft·lb/in	380 J/m	ASTM D256
Unnotched Izod Impact	8.0 ft·lb/in	430 J/m	ASTM D4812
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	> 392 °F	> 200 °C	ASTM D648
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/ft ² /°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	330 V/mil	13 kV/mm	ASTM D149
Arc Resistance	188 sec	188 sec	ASTM D495
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.13 in (3.2 mm))	HB	HB	UL 94

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Injection	Nominal Value (English)	Nominal Value (SI)
Mold Temperature	302 °F	150 °C
Injection Pressure	508 to 943 psi	3.50 to 6.50 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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