Technical Data Sheet

LyondellBasell

Premi-glas 3404

Thermoset, Unspecified
LyondellBasell Industries
Engineering Plastics

Product Description

Premi-Glas® 3404 is a fiberglass reinforced thermoset sheet molding compound for mass transit and semi-structural applications where low smoke and low flammability are required.

Key Features and Benefits:

- Radiant panel flame spread index of less than 35 per ASTM E-162.
- Smoke Density of less than 25 per ASTM E662 (NBS smoke chamber).
- Accepts powder in-mold-coatings.
- Excellent flexural strength and outstanding toughness.
- Halogen-free flame retardant system for reduced smoke toxicity.

General

Material Status	• Commercial: Active	
Availability	• North America	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight	
Additive	• Flame Retardant	
Features	• Flame Retardant • Good Toughness	• Halogen Free • Low Smoke Emission
Uses	• Automotive Applications	
Forms	• SMC - Sheet Molding Compound	

Physical	Nominal Value (English)	Nominal Value (SI)	
Density / Specific Gravity	1.83	1.83 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)	13000 psi	89.6 MPa	ASTM D638
Tensile Elongation			ASTM D638
Break, Compression Molded	1.2 %	1.2 %	
Flexural Modulus (Compression Molded)	1.50E+6 psi	10300 MPa	ASTM D790
Flexural Strength (Compression Molded)	27500 psi	190 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)	18 ft·lb/in	960 J/m	ASTM D4812
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	
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	
Flammability	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
NBS Smoke Density - Ds at 4 min	< 25.0	< 25.0	ASTM E662
Radiant Panel Flame Spread Index	< 35.0	< 35.0	ASTM E162

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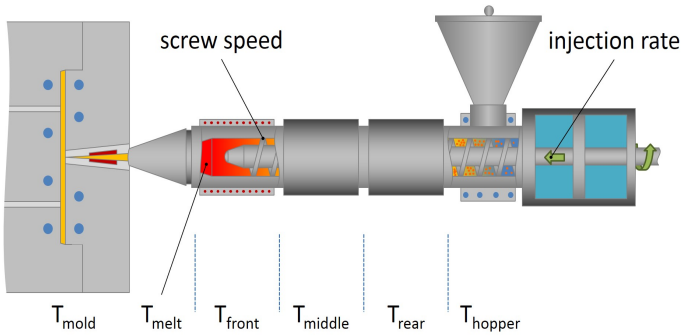

Injection	Nominal Value (English)	Nominal Value (SI)
Mold Temperature	300 °F	149 °C
Injection Pressure	500 to 1000 psi	3.45 to 6.89 MPa

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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