

Technical Data Sheet



Premi-glas 2550®B-CR-SX

Thermoset, Unspecified
LyondellBasell Industries
Engineering Plastics

Product Description

Premi-Glas 2550®B-CR-SX is an advanced fiberglass reinforced thermoset sheet molding compound for electrical, flame retardant, and HVAC applications where stringent flame spread and smoke generation criteria are required.

- Non-Halogen FR technology for regulatory compliance.
- Meets Steiner Tunnel < 25 Flame Spread Index and < 50 Smoke Index.
- Required in some instances where >10 square ft of composite is present.
- Suitable for outdoor use in applications involving UV exposure and water immersion in accordance with UL746C (f1). File E42524.

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber
Additive	• Flame Retardant
Features	• Flame Retardant • Halogen Free
Uses	• Electrical/Electronic Applications
UL File Number	• E42524
Forms	• SMC - Sheet Molding Compound

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	2.00	2.00 g/cm ³	
Outdoor Suitability	f1	f1	UL 746C
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus (Compression Molded)	1.90E+6 psi	13100 MPa	ASTM D638
Tensile Strength (Compression Molded)	10000 psi	68.9 MPa	ASTM D638
Flexural Modulus (Compression Molded)	1.38E+6 psi	9510 MPa	ASTM D790
Flexural Strength (Compression Molded)	24000 psi	165 MPa	ASTM D790
Poisson's Ratio	0.21	0.21	
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (Compression Molded)	13 ft·lb/in	690 J/m	ASTM D256
Unnotched Izod Impact (Compression Molded)	19 ft·lb/in	990 J/m	ASTM D4812
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
CLTE			
Flow ¹	1.3E-5 in/in/°F	2.3E-5 cm/cm/°C	
Transverse ²	1.9E-5 in/in/°F	3.5E-5 cm/cm/°C	
Thermal Conductivity	9.0 Btu·in/hr/ft ² /°F	1.3 W/m/K	
RTI Elec	221 °F	105 °C	UL 746B
RTI Imp	266 °F	130 °C	UL 746B
RTI Str	266 °F	130 °C	UL 746B
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.06 in (1.5 mm))	• V-0 • 5VA	• V-0 • 5VA	UL 94
Flame Spread Index ³	5.00	5.00	UL 723
Smoke Developed Index ³	20.0 to 50.0	20.0 to 50.0	UL 723

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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 XY Direction

² Z Direction

³ Steiner Tunnel

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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