

Technical Data Sheet

**Premi-glas 2200-15 CR-SX**

Thermoset, Unspecified
LyondellBasell Industries
Engineering Plastics

Product Description

Premi-Glas® 2200-15 CR-SX is a fiberglass reinforced thermoset sheet molding compound for electrical, flame retardant, and HVAC applications.

Key Features and Benefits:

- Pigmentable for molded-in color; best appearance with mold texture.
- Good dimensional stability, including excellent thermal resistance.
- UL 94-5V flame resistance at 1.5mm minimum thickness.
- Subject to UL746C for consideration in exterior applications involving UV exposure and water immersion. File E42524.

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber
Features	• Corrosion Resistant • Flame Retardant • Good Dimensional Stability
Uses	• Electrical/Electronic Applications
UL File Number	• E42524

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.70 to 1.85	1.70 to 1.85 g/cm ³	
Shrinkage	1.5 mil/in	0.15 %	ISO 2577
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus (Compression Molded)	1.30E+6 psi	8960 MPa	ASTM D638
Tensile Strength (Compression Molded)	4500 psi	31.0 MPa	ASTM D638
Flexural Modulus (Compression Molded)	1.20E+6 psi	8270 MPa	ASTM D790
Flexural Strength (Compression Molded)	14500 psi	100 MPa	ASTM D790
Poisson's Ratio	0.30	0.30	
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (Compression Molded)	9.6 ft·lb/in	510 J/m	ASTM D256
Unnotched Izod Impact (Compression Molded)	13 ft·lb/in	690 J/m	ASTM D4812
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
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	380 V/mil	15 kV/mm	ASTM D149
Arc Resistance	180 sec	180 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	ASTM D2303
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.06 in (1.5 mm))	• V-0 • 5V	• V-0 • 5V	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 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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