

Technical Data Sheet



Premi-glas 2207-20 CR-SX

Thermoset, Unspecified
LyondellBasell Industries
Engineering Plastics

Product Description

Premi-Glas® 2207-20 CR-SX is a fiberglass reinforced thermoset sheet molding compound for electrical, flame retardant, and HVAC applications.

Key Features and Benefits:

- Non-Halogen FR technology for regulatory compliance.
- Pigmentable for molded-in color; best appearance with mold texture.
- UL 94-5VA flame resistance at 1.5mm minimum thickness.
- Recognized by Underwriters Laboratories, File # E42524.

This SMC product is generally intended to be compression molded in matched metal die molds, typically at 300°F (150°C) and 500 to 1000 psi (35-65 BAR) molding pressure. Strength values may be affected by the molding process. Nominal values for polymerization shrinkage (0.001 to 0.0025 in/in) and specific gravity (1.85 to 1.90) may be customized for individual applications. Contact your A. Schulman sales representative for specific design recommendations.

General

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

Physical	Nominal Value (English)	Nominal Value (SI)	
Density / Specific Gravity	1.85 to 1.90	1.85 to 1.90 g/cm ³	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	1.75E+6 psi	12100 MPa	ASTM D638
Tensile Strength	9500 psi	65.5 MPa	ASTM D638
Flexural Modulus	1.45E+6 psi	10000 MPa	ASTM D790
Flexural Strength	27500 psi	190 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	15 ft.-lb/in	800 J/m	ASTM D256
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
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	400 V/mil	16 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 • 5VA	• V-0 • 5VA	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

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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