Technical Data Sheet

LyondellBasell

Premi-glas 2103-20 CR-SX

Thermoset, Unspecified
LyondellBasell Industries
Engineering Plastics

Product Description			
Premi-Glas® 2103-20 CR-SX is a fiberglass reinforced thermoset bulk molding compound for electrical and flame retardant applications.			
General			
Material Status	• Commercial: Active		
Availability	• North America		
Filler / Reinforcement	• Glass Fiber		
Additive	• Flame Retardant		
Features	• Flame Retardant • Good Dimensional Stability	• Good Stiffness • Good Thermal Stability	• Halogen Free
Uses	• Electrical/Electronic Applications		
UL File Number	• E42524		
Forms	• BMC - Bulk Molding Compound		

Physical	Nominal Value (English)	Nominal Value (SI)	
Density / Specific Gravity	1.70 to 1.85	1.70 to 1.85 g/cm³	
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus	1.74E+6 psi	12000 MPa	ASTM D638
Tensile Strength	5510 psi	38.0 MPa	ASTM D638
Flexural Modulus	1.45E+6 psi	10000 MPa	ASTM D790
Flexural Strength	16000 psi	110 MPa	ASTM D790
Poisson's Ratio	0.30	0.30	
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact	8.0 ft·lb/in	430 J/m	ASTM D256
Unnotched Izod Impact	9.9 ft·lb/in	530 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/ft²/°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
Flammability	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Flame Rating (0.10 in (2.5 mm))	V-0	V-0	UL 94

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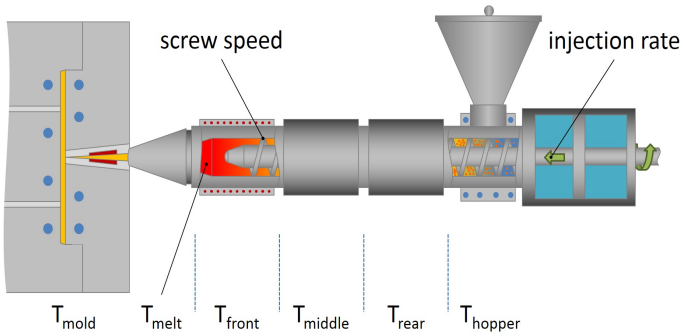

Injection	Nominal Value (English)	Nominal Value (SI)
Mold Temperature	302 °F	150 °C
Injection Pressure	508 to 943 psi	3.50 to 6.50 MPa

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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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