

Technical Data Sheet

**Premi-glas 1203-28**

Thermoset, Unspecified
LyondellBasell Industries
Engineering Plastics

Product Description

Premi-Glas® 1203-28 is a versatile fiberglass reinforced thermoset sheet molding compound for automotive body panel, structural and semi-structural applications where excellent surface appearance, high strength, and durability are required.

Key Features and Benefits:

- Excellent surface profile for highly visible painted surfaces.
- Low moisture absorption and long term durability.
- Accepts automotive primers and powder in-mold-coatings.
- Excellent flexural strength and outstanding toughness.
- Standard colors are unpigmented or grey. Limited pigmentability.

General

Material Status	• Commercial: Active		
Availability	• North America		
Filler / Reinforcement	• Glass Fiber		
Features	• Durable • Good Surface Finish	• Good Toughness • High Strength	• Low Moisture Absorption • Paintable
Uses	• Automotive Applications	• Structural Parts	
Appearance	• Natural Color		
Forms	• SMC - Sheet Molding Compound		

Physical	Nominal Value (English)	Nominal Value (SI)	
Density / Specific Gravity	1.92	1.92 g/cm ³	
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)	12500 psi	86.2 MPa	ASTM D638
Tensile Elongation			ASTM D638
Break, Compression Molded	0.90 %	0.90 %	
Flexural Modulus (Compression Molded)	1.90E+6 psi	13100 MPa	ASTM D790
Flexural Strength (Compression Molded)	35000 psi	241 MPa	ASTM D790
Poisson's Ratio	0.30	0.30	
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (Compression Molded)	18 ft·lb/in	960 J/m	ASTM D256
Unnotched Izod Impact (Compression Molded)	28 ft·lb/in	1500 J/m	ASTM D4812
Thermal	Nominal Value (English)	Nominal Value (SI)	
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	
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flammability	pass	pass	FMVSS 302

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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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