

Technical Data Sheet

**Schuladur A1 GF 20**

Polybutylene Terephthalate + PET
LyondellBasell Industries
Engineering Plastics

Product Description

20% glass fibre reinforced polyester blend

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• (PBT+PET)-GF20		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.47 g/cm ³	1.47 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (260°C/2.16 kg)	27 cm ³ /10min	27 cm ³ /10min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	1.17E+6 psi	8100 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	16700 psi	115 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.0 %	2.0 %	ISO 527-2/1A/5
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	2.9 ft·lb/in ²	6.0 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F (23°C)	14 ft·lb/in ²	30 kJ/m ²	ISO 179/1eU
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	437 °F	225 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	392 °F	200 °C	ISO 75-2/Af
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	> 1.0E+15 ohms	> 1.0E+15 ohms	IEC 60093
Volume Resistivity	> 1.0E+13 ohms·m	> 1.0E+13 ohms·m	IEC 62631-3-1
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate			
0.0787 in (2.00 mm)	1.6 in/min	40 mm/min	ISO 3795
0.0787 in (2.00 mm)	1.6 in/min	40 mm/min	FMVSS 302
Flammability Classification			
0.030 in (0.75 mm)	HB	HB	IEC 60695-11-10, -20
0.06 in (1.5 mm)	HB	HB	
Glow Wire Flammability Index			
0.08 in (2.0 mm)	1200 °F	650 °C	IEC 60695-2-12

Additional Information

- 1.) Not for use in food contact applications
- 2.) Not for use in medical or pharmaceutical applications

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

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- 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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