

Technical Data Sheet

Schuladur A1 GF 20

Polybutylene Terephthalate + PET
 LyondellBasell Industries
 Engineering Plastics

Product Description

20% glass fibre reinforced polyester blend

General

Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PBT+PET+GF

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
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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
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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
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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
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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
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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
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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.