

Technical Data Sheet

Schuladur A1 GF 30

Polybutylene Terephthalate + PET
LyondellBasell Industries
Engineering Plastics

Product Description

30% glass fibre reinforced PBT/PET-blend

General

Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PBT+PET-GF

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.55 g/cm ³	1.55 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (260°C/2.16 Kg)	17 cm ³ /10min	17 cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Equilibrium, 73°F (23°C), 50% Rh	0.30 %	0.30 %	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	1.60E+6 psi	11000 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	20600 psi	142 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.1 %	2.1 %	ISO 527-2/1A/5
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	3.8 ft·lb/in ²	8.0 kJ/m ²	
73°F (23°C)	3.8 ft·lb/in ²	8.0 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	24 ft·lb/in ²	50 kJ/m ²	
73°F (23°C)	26 ft·lb/in ²	55 kJ/m ²	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	38100 psi	263 MPa	ISO 2039-1
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
Vicat Softening Temperature			
--	399 °F	204 °C	ISO 306/B50
--	424 °F	218 °C	ISO 306/A50
Ball Pressure Test (392°F (200°C))	Pass	Pass	IEC 60695-10-2
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	> 1.0E+16 ohms	> 1.0E+16 ohms	IEC 60093
Volume Resistivity	> 1.0E+12 ohms·m	> 1.0E+12 ohms·m	IEC 62631-3-1
Comparative Tracking Index	300 V	300 V	IEC 60112

Technical Data Sheet

Schuladur A1 GF 30

Polybutylene Terephthalate + PET
LyondellBasell Industries
Engineering Plastics

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate			
0.0787 In (2.00 Mm)	1.4 in/min	35 mm/min	ISO 3795
0.0787 In (2.00 Mm)	1.4 in/min	35 mm/min	FMVSS 302
Flammability Classification			IEC 60695-11-10, -20
0.06 In (1.5 Mm)	HB	HB	
0.12 In (3.0 Mm)	HB	HB	
Glow Wire Flammability Index			IEC 60695-2-12
0.06 In (1.5 Mm)	1290 °F	700 °C	
0.12 In (3.0 Mm)	1470 °F	800 °C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.06 In (1.5 Mm)	1340 °F	725 °C	
0.12 In (3.0 Mm)	1520 °F	825 °C	
Oxygen Index	19 %	19 %	ISO 4589-2

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.