

Technical Data Sheet

# Schuladur A GF 10 BLACK

Polybutylene Terephthalate  
LyondellBasell Industries  
Engineering Plastics

## Product Description

10% glass fibre reinforced PBT compound

## General

Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PBT-GF

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.37 g/cm <sup>3</sup>	1.37 g/cm <sup>3</sup>	ISO 1183/A
Melt Volume-Flow Rate (MVR) (250°C/2.16 Kg)	11 cm <sup>3</sup> /10min	11 cm <sup>3</sup> /10min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	638000 psi	4400 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	11600 psi	80.0 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.7 %	3.7 %	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)	1.4 ft·lb/in <sup>2</sup>	3.0 kJ/m <sup>2</sup>	
73°F (23°C)	1.9 ft·lb/in <sup>2</sup>	4.0 kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	14 ft·lb/in <sup>2</sup>	30 kJ/m <sup>2</sup>	
73°F (23°C)	14 ft·lb/in <sup>2</sup>	30 kJ/m <sup>2</sup>	

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 Psi (0.45 Mpa), Unannealed	419 °F	215 °C	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	356 °F	180 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	392 °F	200 °C	ISO 306/B50
--	430 °F	221 °C	ISO 306/A50

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
Comparative Tracking Index (Solution A)	175 V	175 V	IEC 60112

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate			
0.0787 In (2.00 Mm)	< 3.9 in/min	< 100 mm/min	ISO 3795
0.0787 In (2.00 Mm)	< 3.9 in/min	< 100 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	

## Additional Information

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

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	248 °F	120 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Processing (Melt) Temp	482 to 500 °F	250 to 260 °C
Mold Temperature	158 to 194 °F	70 to 90 °C

## Notes

These are typical property values not to be construed as specification limits.