

Technical Data Sheet

**Schuladur A GF 10 HI2 BLK968001**

Polybutylene Terephthalate
LyondellBasell Industries
Engineering Plastics

Product Description

10% glass fibre reinforced PBT compound with improved impact properties

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight		
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.37 g/cm ³	1.37 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	30 cm ³ /10min	30 cm ³ /10min	ISO 1133
Water Absorption Equilibrium, 73°F (23°C), 50% RH	0.30 %	0.30 %	ISO 62

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	653000 psi	4500 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	13100 psi	90.0 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.5 %	3.5 %	ISO 527-2/1A/5
Flexural Modulus ¹	551000 psi	3800 MPa	ISO 178
Flexural Stress ¹ (4.6% Strain)	17700 psi	122 MPa	ISO 178

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength -22°F (-30°C) 73°F (23°C)	1.9 ft·lb/in ² 2.4 ft·lb/in ²	4.0 kJ/m ² 5.0 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength -22°F (-30°C) 73°F (23°C)	17 ft·lb/in ² 17 ft·lb/in ²	35 kJ/m ² 35 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 264 psi (1.8 MPa), Unannealed	419 °F 365 °F	215 °C 185 °C	ISO 75-2/Bf ISO 75-2/Af
Vicat Softening Temperature -- --	401 °F 424 °F	205 °C 218 °C	ISO 306/B50 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)	300 V	300 V	IEC 60112

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate 0.0787 in (2.00 mm) 0.0787 in (2.00 mm)	1.9 in/min 1.9 in/min	49 mm/min 49 mm/min	ISO 3795 FMVSS 302
Flammability Classification 0.06 in (1.5 mm) 0.12 in (3.0 mm)	HB HB	HB HB	IEC 60695-11-10, -20

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

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Notes

¹ 0.079 in/min (2.0 mm/min)

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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