

Technical Data Sheet

# Schuladur A GF 30

Polybutylene Terephthalate  
LyondellBasell Industries  
Engineering Plastics

## Product Description

30% glass fibre reinforced PBT compound

## General

Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Medium Viscosity
RoHS Compliance	• RoHS Compliant
Automotive Specifications	• FORD WSK-M4D725-A Color: Black • GM QK 006615 Color: 96.8001 Black
UL File Number	• E86615
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PBT-GF

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.53 g/cm <sup>3</sup>	1.53 g/cm <sup>3</sup>	ISO 1183/A
Melt Volume-Flow Rate (MVR) (250°C/2.16 Kg)	18 cm <sup>3</sup> /10min	18 cm <sup>3</sup> /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	1.45E+6 psi	10000 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	18900 psi	130 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.5 %	2.5 %	ISO 527-2/1A/5

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength -22°F (-30°C)	2.4 ft·lb/in <sup>2</sup>	5.0 kJ/m <sup>2</sup>	ISO 179/1eA
73°F (23°C)	3.8 ft·lb/in <sup>2</sup>	8.0 kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength -22°F (-30°C)	26 ft·lb/in <sup>2</sup>	55 kJ/m <sup>2</sup>	ISO 179/1eU
73°F (23°C)	29 ft·lb/in <sup>2</sup>	60 kJ/m <sup>2</sup>	

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	33100 psi	228 MPa	ISO 2039-1

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	401 °F	205 °C	ISO 75-2/Af
Vicat Softening Temperature --	415 °F	213 °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+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	350 V	350 V	IEC 60112

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate 0.0787 In (2.00 Mm)	1.5 in/min	39 mm/min	ISO 3795
0.0787 In (2.00 Mm)	1.5 in/min	39 mm/min	FMVSS 302

Technical Data Sheet

## Schuladur A GF 30

Polybutylene Terephthalate  
LyondellBasell Industries  
Engineering Plastics

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.030 In (0.75 Mm)	HB	HB	
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)	1380 °F	750 °C	
0.12 In (3.0 Mm)	1380 °F	750 °C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.06 In (1.5 Mm)	1430 °F	775 °C	
0.12 In (3.0 Mm)	1430 °F	775 °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

Technical Data Sheet

# Schuladur A GF 30

Polybutylene Terephthalate  
LyondellBasell Industries  
Engineering Plastics



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
Suggested Max Moisture	0.05 %	0.05 %
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.