

# Schuladur A3 GF 20

Polybutylene Terephthalate + ASA

LyondellBasell Industries

Engineering Plastics

## Product Description

20% glass fibre reinforced, warpage optimized PBT/ASA compound providing high surface quality

## General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Features	• Good Surface Finish • Low Warpage
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
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Density	1.34 g/cm <sup>3</sup>	1.34 g/cm <sup>3</sup>	ISO 1183/A
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	20 cm <sup>3</sup> /10min	20 cm <sup>3</sup> /10min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
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Tensile Modulus	943000 psi	6500 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	13900 psi	96.0 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.6 %	2.6 %	ISO 527-2/1A/5

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
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Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	2.4 ft·lb/in <sup>2</sup>	5.0 kJ/m <sup>2</sup>	
73°F (23°C)	3.8 ft·lb/in <sup>2</sup>	8.0 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)	21 ft·lb/in <sup>2</sup>	45 kJ/m <sup>2</sup>	

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
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Deflection Temperature Under Load			
66 psi (0.45 MPa), Unannealed	410 °F	210 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	342 °F	172 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	293 °F	145 °C	ISO 306/B50
--	401 °F	205 °C	ISO 306/A50

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
Comparative Tracking Index (Solution A)	250 V	250 V	IEC 60112

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
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Burning Rate			
0.0787 in (2.00 mm)	0.79 in/min	20 mm/min	ISO 3795
0.0787 in (2.00 mm)	0.79 in/min	20 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)	1290 °F	700 °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)	1340 °F	725 °C	

## **Schuladur A3 GF 20**

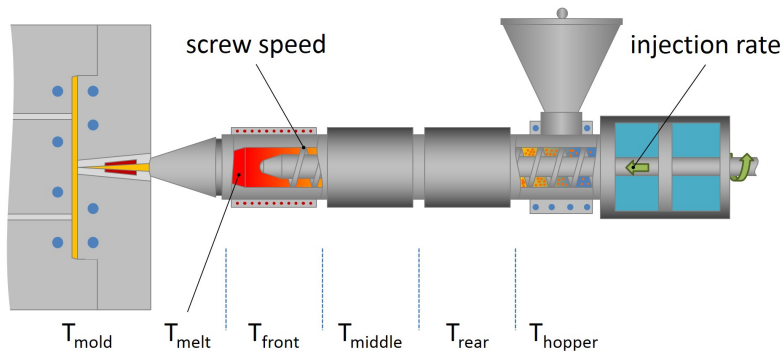
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### **Additional Information**

- 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	212 °F	100 °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	140 to 194 °F	60 to 90 °C

## 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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