

Technical Data Sheet

# SCHULADUR<sup>®</sup> A GB 20

Polybutylene Terephthalate  
Engineering Plastics

## Product Description

20% glass bead reinforced PBT-grade

## General

Filler / Reinforcement	• Glass Bead, 20% Filler by Weight
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.44 g/cm <sup>3</sup>	1.44 g/cm <sup>3</sup>	ISO 1183/A
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	15 cm <sup>3</sup> /10min	15 cm <sup>3</sup> /10min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	493000 psi	3400 MPa	ISO 527-2/1A/1
Tensile Stress (Break)	7250 psi	50.0 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	6.0 %	6.0 %	ISO 527-2/1A/5
Flexural Modulus <sup>1</sup>	479000 psi	3300 MPa	ISO 178
Flexural Stress <sup>1</sup>	12000 psi	83.0 MPa	ISO 178
Flexural Strain at Break	8.0 %	8.0 %	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	1.7 ft·lb/in <sup>2</sup>	3.5 kJ/m <sup>2</sup>	
73°F (23°C)	2.4 ft·lb/in <sup>2</sup>	5.0 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)	24 ft·lb/in <sup>2</sup>	50 kJ/m <sup>2</sup>	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	347 °F	175 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	201 °F	94.0 °C	ISO 75-2/af
Vicat Softening Temperature			
--	424 °F	218 °C	ISO 306/A50
--	363 °F	184 °C	ISO 306/B50
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate			
0.0787 in (2.00 mm)	0.91 in/min	23 mm/min	ISO 3795
0.0787 in (2.00 mm)	0.91 in/min	23 mm/min	FMVSS 302
Flammability Classification			IEC 60695-11-10, -20
0.06 in (1.6 mm)	HB	HB	
0.13 in (3.2 mm)	HB	HB	
Glow Wire Flammability Index			IEC 60695-2-12
0.06 in (1.5 mm)	1340 °F	725 °C	
0.12 in (3.0 mm)	1340 °F	725 °C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.06 in (1.5 mm)	1380 °F	750 °C	
0.12 in (3.0 mm)	1380 °F	750 °C	

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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	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 %
Suggested Max Regrind	20 %	20 %
Processing (Melt) Temp	482 to 500 °F	250 to 260 °C
Mold Temperature	158 to 194 °F	70 to 90 °C
Screw Speed	< 709 in/min	< 18 m/min

### Notes

<sup>1</sup> 0.079 in/min (2.0 mm/min)

### Notes

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