

Technical Data Sheet

SCHULADUR® A3 GF 30 SF

Polybutylene Terephthalate + ASA
Engineering Plastics

Product Description

30% glass fibre reinforced PBT/ASA-blend with high surface quality and reduced warpage

General

Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Good Surface Finish • Low Warpage
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.43 g/cm³	1.43 g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	18 cm³/10min	18 cm³/10min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	1.45E+6 psi	10000 MPa	ISO 527-2/1A/1
Tensile Stress (Break)	18100 psi	125 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.0 %	2.0 %	ISO 527-2/1A/5
Flexural Modulus ¹	1.23E+6 psi	8500 MPa	ISO 178
Flexural Stress ¹	24900 psi	172 MPa	ISO 178

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	3.3 ft·lb/in²	7.0 kJ/m²	
73°F (23°C)	3.3 ft·lb/in²	7.0 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	17 ft·lb/in²	35 kJ/m²	
73°F (23°C)	19 ft·lb/in²	40 kJ/m²	

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	415 °F	213 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	367 °F	186 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	396 °F	202 °C	ISO 306/A50
--	271 °F	133 °C	ISO 306/B50

Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Comparative Tracking Index	200 V	200 V	IEC 60112

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate			
0.0787 in (2.00 mm)	1.2 in/min	30 mm/min	ISO 3795
0.0787 in (2.00 mm)	1.2 in/min	30 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)	1380 °F	750 °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)	1430 °F	775 °C	
Oxygen Index	20 %	20 %	ISO 4589-2

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Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flammability	1 in/min	30 mm/min	FMVSS 302

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 %
Suggested Max Regrind	20 %	20 %
Processing (Melt) Temp	482 to 500 °F	250 to 260 °C
Mold Temperature	140 to 194 °F	60 to 90 °C

Notes

¹ 0.079 in/min (2.0 mm/min)

Notes

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