

Technical Data Sheet

Schuladur A2 GF 15 K1882 LS

Polybutylene Terephthalate + ASA
 LyondellBasell Industries
 Engineering Plastics

Product Description

15% glass fibre reinforced PBT/ASA-blend with high surface and reduced warpage

General

Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PBT+ASA GF15

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.31 g/cm ³	1.31 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR)			ISO 1133
250°C/2.16 Kg	5.0 cm ³ /10min	5.0 cm ³ /10min	
250°C/5.0 Kg	30 cm ³ /10min	30 cm ³ /10min	

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	674000 psi	4650 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	8700 psi	60.0 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.2 %	3.2 %	ISO 527-2/1A/5
Flexural Modulus (73°F (23°C))	595000 psi	4100 MPa	ISO 178
Flexural Stress (73°F (23°C))	13600 psi	94.0 MPa	ISO 178

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	2.9 ft·lb/in ²	6.0 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F (23°C)	19 ft·lb/in ²	40 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	392 °F	200 °C	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	266 °F	130 °C	ISO 75-2/Af

Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Comparative Tracking Index	250 V	250 V	IEC 60112

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate			
0.0787 In (2.00 Mm)	< 3.9 in/min	< 100 mm/min	ISO 3795
0.0787 In (2.00 Mm)	< 3.9 in/min	< 100 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 %
Hopper Temperature	158 °F	70 °C
Rear Temperature	446 °F	230 °C
Middle Temperature	473 °F	245 °C
Front Temperature	500 °F	260 °C
Nozzle Temperature	500 °F	260 °C
Processing (Melt) Temp	482 to 500 °F	250 to 260 °C
Mold Temperature	140 to 194 °F	60 to 90 °C
Injection Pressure	11600 to 17400 psi	80.0 to 120 MPa
Holding Pressure	5800 to 10200 psi	40.0 to 70.0 MPa
Back Pressure	725 to 1450 psi	5.00 to 10.0 MPa
Vent Depth	7.9E-4 in	0.020 mm
Screw Speed	709 in/min	18 m/min

Notes

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