Technical Data Sheet

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		
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight	
Features	• Good Surface Finish	• Low Warpage
RoHS Compliance	• RoHS Compliant	
Processing Method	• Injection Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.34 g/cm³	1.34 g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (250°c/2.16 Kg)	20 cm³/10min	20 cm³/10min	ISO 1133
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
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**
Charpy Notched Impact Strength			ISO 179/1eA
-22°f (-30°c)	2.4 ft·lb/in²	5.0 kJ/m²	
73°f (23°c)	3.8 ft·lb/in²	8.0 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°f (-30°c)	14 ft·lb/in²	30 kJ/m²	
73°f (23°c)	21 ft·lb/in²	45 kJ/m²	
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
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**
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**
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	

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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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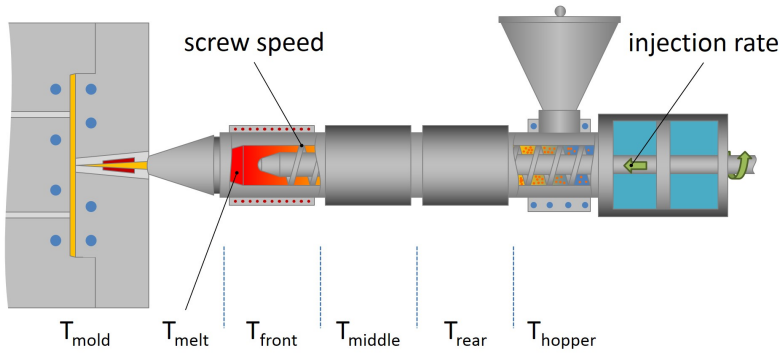

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	212 °F	100 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Suggested Max Moisture	0.05 %	0.05 %
Processing (Melt) Temp	482 to 500 °F	250 to 260 °C
Mold Temperature	140 to 194 °F	60 to 90 °C

Notes

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