Technical Data Sheet

SCHULADUR® A GF 30 HR2

Polybutylene Terephthalate
Engineering Plastics

Product Description
30% glass fibre reinforced, hydrolysis stabilized PBT compound

General	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Hydrolysis Resistant
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PBT-GF30

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.40 g/cm³	1.40 g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	11 cm³/10min	11 cm³/10min	ISO 1133
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus	1.16E+6 psi	8000 MPa	ISO 527-2/1A/1
Tensile Stress (Break)	13800 psi	95.0 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	4.0 %	4.0 %	ISO 527-2/1A/5
Flexural Modulus [1]	1.02E+6 psi	7000 MPa	ISO 178
Flexural Stress [1] (4.0% Strain)	22500 psi	155 MPa	ISO 178
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	6.2 ft·lb/in²	13 kJ/m²	
73°F (23°C)	11 ft·lb/in²	23 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	36 ft·lb/in²	76 kJ/m²	
73°F (23°C)	37 ft·lb/in²	78 kJ/m²	
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Heat Deflection Temperature			ISO 75-2/Af
264 psi (1.8 MPa), Unannealed	392 °F	200 °C	
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	575 V	575 V	IEC 60112
Flammability	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Burning Rate			
0.0787 in (2.00 mm)	1.8 in/min	45 mm/min	ISO 3795
0.0787 in (2.00 mm)	1.8 in/min	45 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	

Additional Information

1.) Not for use in food contact applications
2.) Not for use in medical or pharmaceutical applications

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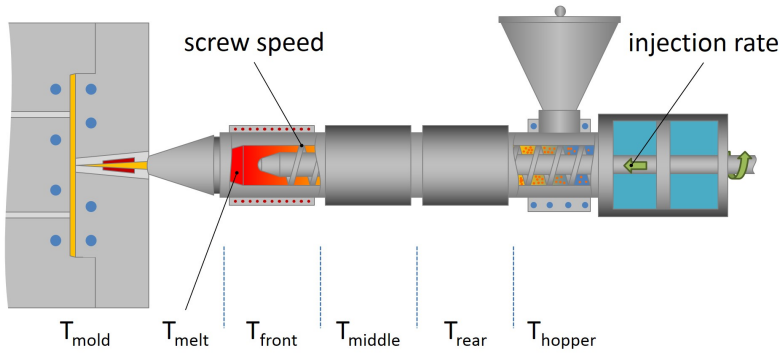

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	248 °F	120 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Suggested Max Moisture	0.05 %	0.05 %
Suggested Max Regrind	20 %	20 %
Processing (Melt) Temp	482 to 500 °F	250 to 260 °C
Mold Temperature	158 to 194 °F	70 to 90 °C

Notes

[1] 0.079 in/min (2.0 mm/min)

Notes

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