Technical Data Sheet

SCHULAMID® 6 GB 30 LS

Polyamide 6
Engineering Plastics

Product Description
30% glass beads reinforced Polyamide 6 with higher stiffness and dimension stability and UV-stabilizer

General	
Filler / Reinforcement	• Glass Bead, 30% Filler by Weight
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PAM 6 GB 30

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.35 g/cm³	1.35 g/cm³	ISO 1183/A
Viscosity Number (H2SO4 (Sulphuric Acid))	140 cm³/g	140 cm³/g	ISO 307
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus	595000 psi	4100 MPa	ISO 527-2/1A/1
Tensile Stress (Break)	8990 psi	62.0 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	4.5 %	4.5 %	ISO 527-2/1A/5
Flexural Modulus [1]	508000 psi	3500 MPa	ISO 178
Flexural Stress [1]			ISO 178
6.0% Strain	15200 psi	105 MPa	
3.5% Strain	13500 psi	93.0 MPa	
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	1.4 ft·lb/in²	3.0 kJ/m²	
73°F (23°C)	1.9 ft·lb/in²	4.0 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	13 ft·lb/in²	28 kJ/m²	
73°F (23°C)	19 ft·lb/in²	40 kJ/m²	
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Ball Indentation Hardness (H 961/30)	27100 psi	187 MPa	ISO 2039-1
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	358 °F	181 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	149 °F	65.0 °C	ISO 75-2/Af
Vicat Softening Temperature	387 °F	197 °C	ISO 306/B50
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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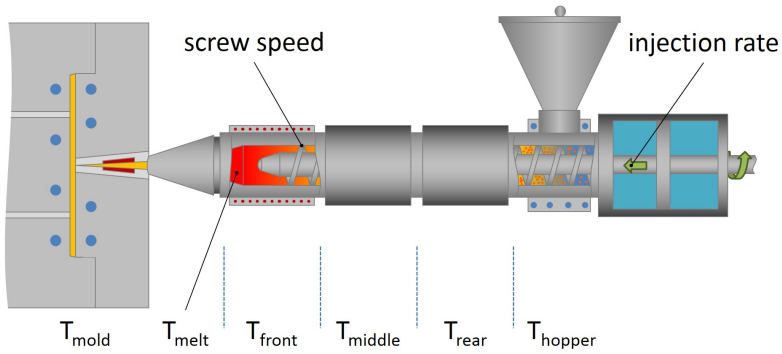

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Suggested Max Regrind	20 %	20 %
Processing (Melt) Temp	482 to 536 °F	250 to 280 °C
Mold Temperature	140 to 212 °F	60 to 100 °C

Notes

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

Notes

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