Technical Data Sheet

Schulamid 6 GF 30 MO1

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description
30% glass fiber reinforced PA 6, with molybdenum sulfide for tribological applications

General	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Molybdenum Disulfide Lubricant
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.38 g/cm³	1.38 g/cm³	ISO 1183/A
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus	1.38E+6 psi	9500 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	24700 psi	170 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.2 %	3.2 %	ISO 527-2/1A/5
Flexural Modulus	1.16E+6 psi	8000 MPa	ISO 178
Flexural Stress	34800 psi	240 MPa	ISO 178
Flexural Strain at Flexural Strength	4.2 %	4.2 %	ISO 178
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-22°f (-30°c)	3.8 ft·lb/in²	8.0 kJ/m²	
73°f (23°c)	5.7 ft·lb/in²	12 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°f (-30°c)	29 ft·lb/in²	60 kJ/m²	
73°f (23°c)	40 ft·lb/in²	85 kJ/m²	
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			
66 Psi (0.45 Mpa), Unannealed	428 °F	220 °C	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	401 °F	205 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	414 °F	212 °C	ISO 306/B50
--	424 °F	218 °C	ISO 306/A120
Electrical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Comparative Tracking Index	450 V	450 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

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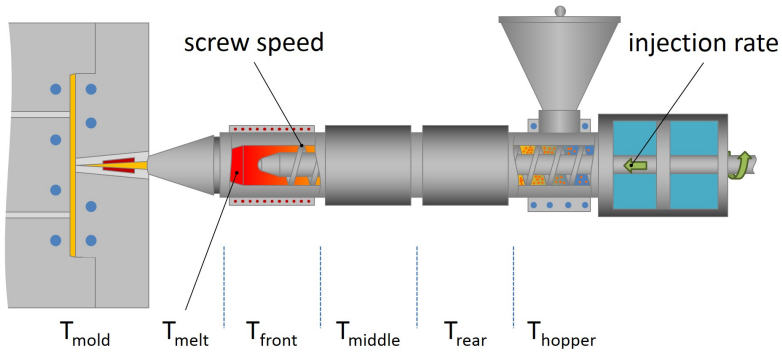

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Processing (Melt) Temp	482 to 536 °F	250 to 280 °C
Mold Temperature	140 to 212 °F	60 to 100 °C

Notes

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