Technical Data Sheet

Schulamid 6 CF 30 BLACK

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description
30% carbon fiber reinforced Polyamide 6, available with different kinds of Heat Stabilizations Systems

General	
Filler / Reinforcement	• Carbon Fiber, 30% Filler by Weight
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.26 g/cm³	1.26 g/cm³	ISO 1183/A
Viscosity Number	145 cm³/g	145 cm³/g	ISO 307
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus	3.05E+6 psi	21000 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	31900 psi	220 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.5 %	2.5 %	ISO 527-2/1A/5
Flexural Modulus [1]	2.68E+6 psi	18500 MPa	ISO 178
Flexural Stress [1]			ISO 178
3.0% Strain	47900 psi	330 MPa	
3.0% Strain [2]	46400 psi	320 MPa	
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-22°f (-30°c)	3.6 ft·lb/in²	7.5 kJ/m²	
73°f (23°c)	5.2 ft·lb/in²	11 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°f (-30°c)	31 ft·lb/in²	65 kJ/m²	
73°f (23°c)	33 ft·lb/in²	70 kJ/m²	
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			ISO 75-2/Af
264 Psi (1.8 Mpa), Unannealed	419 °F	215 °C	
Electrical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Volume Resistivity	1.0E+2 ohms·m	1.0E+2 ohms·m	IEC 62631-3-1
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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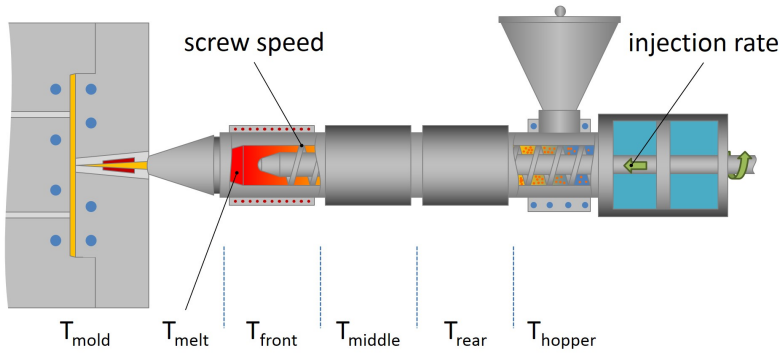

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Processing (Melt) Temp	500 to 572 °F	260 to 300 °C
Mold Temperature	140 to 248 °F	60 to 120 °C

Notes

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

[2] at Break

Notes

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