

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

Material Status	• Commercial: Active
Availability	• Europe
Filler / Reinforcement	• Carbon Fiber, 30% Filler by Weight
Processing Method	• Injection Molding

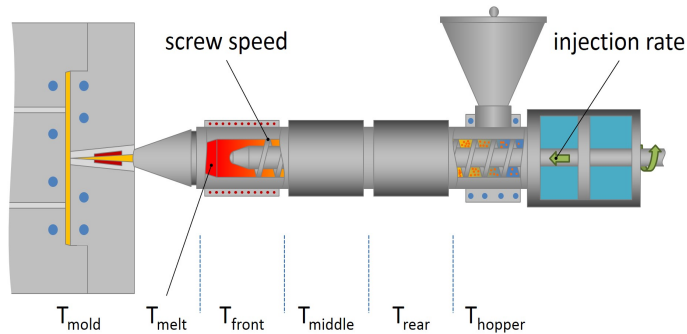
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.26 g/cm ³	1.26 g/cm ³	ISO 1183/A
Viscosity Number	145 cm ³ /g	145 cm ³ /g	ISO 307
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	3.05E+6 psi	21000 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	31900 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/in ²	7.5 kJ/m ²	
73°F (23°C)	5.2 ft·lb/in ²	11 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	31 ft·lb/in ²	65 kJ/m ²	
73°F (23°C)	33 ft·lb/in ²	70 kJ/m ²	
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

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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.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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