

Technical Data Sheet



Schulamid 6 BNT 3000 F LS

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description

30% glass fiber reinforced Polyamid 6

General

Material Status	• Commercial: Active
Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PAM 6 GF30 UV

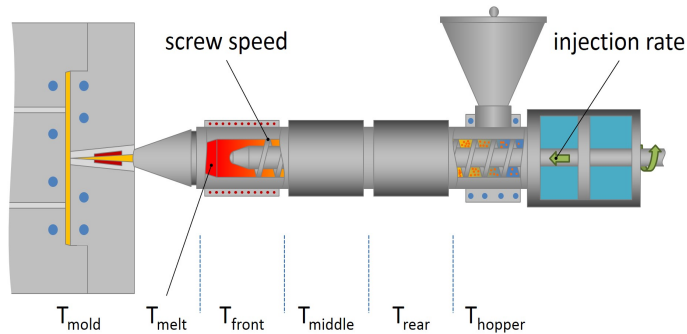
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.36 g/cm ³	1.36 g/cm ³	ISO 1183/A
Viscosity Number	140 cm ³ /g	140 cm ³ /g	ISO 307
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	1.38E+6 psi	9500 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	26500 psi	183 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.3 %	3.3 %	ISO 527-2/1A/5
Flexural Modulus ¹	1.23E+6 psi	8450 MPa	ISO 178
Flexural Stress ¹ (4.0% Strain)	37000 psi	255 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	4.3 ft·lb/in ²	9.0 kJ/m ²	
73°F (23°C)	5.7 ft·lb/in ²	12 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	33 ft·lb/in ²	70 kJ/m ²	
73°F (23°C)	43 ft·lb/in ²	90 kJ/m ²	
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	392 °F	200 °C	ISO 75-2/Af
Vicat Softening Temperature	410 °F	210 °C	ISO 306/B50
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	> 1.0E+16 ohms	> 1.0E+16 ohms	IEC 60093
Volume Resistivity	> 1.0E+16 ohms·cm	> 1.0E+16 ohms·cm	IEC 60093

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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

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Notes

¹ 0.079 in/min (2.0 mm/min)

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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