

Technical Data Sheet



Schulamid 6 GB 30 U

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description

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

General

Material Status	• Commercial: Active
Availability	• Europe
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/cm ³	1.35 g/cm ³	ISO 1183/A
Viscosity Number (H ₂ SO ₄ (Sulphuric Acid))	140 cm ³ /g	140 cm ³ /g	ISO 307
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	595000 psi	4100 MPa	ISO 527-1/1A/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/in ²	3.0 kJ/m ²	
73°F (23°C)	1.9 ft·lb/in ²	4.0 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	13 ft·lb/in ²	28 kJ/m ²	
73°F (23°C)	19 ft·lb/in ²	40 kJ/m ²	
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
Deflection Temperature Under Load			
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

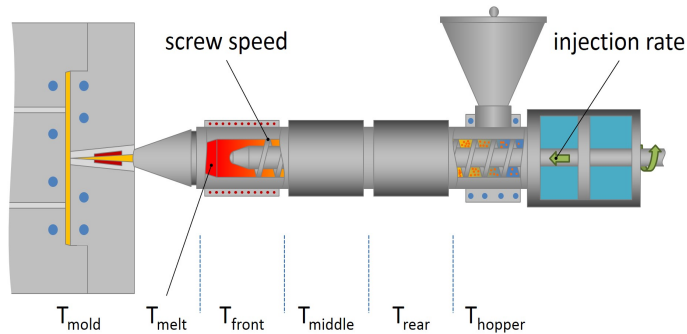
- 1.) Not for use in food contact applications
- 2.) Not for use in medical or pharmaceutical applications

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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 %
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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