

Technical Data Sheet



Schulamid 6 GBF 3020 K1697

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description

30% glass fibre and glass bead reinforced PA 6

General

Material Status	• Commercial: Active
Availability	• Europe
Filler / Reinforcement	• Glass Bead\Glass Fiber, 30% Filler by Weight
Features	• High Strength • Low Warpage
Processing Method	• Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.34	--	g/cm ³	ISO 1183/A
Viscosity Number	147	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.09E+6 (7500)	616000 (4250)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	21500 (148)	13100 (90.0)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	4.3	10	%	ISO 527-2/1A/5
Flexural Modulus ¹	899000 (6200)	--	psi (MPa)	ISO 178
Flexural Stress ¹				ISO 178
5.5% Strain	29700 (205)	--	psi (MPa)	
3.5% Strain	26800 (185)	--	psi (MPa)	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	3.4 (7.2)	--	ft-lb/in ² (kJ/m ²)	
73°F (23°C)	4.5 (9.5)	9.5 (20)	ft-lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	26 (55)	--	ft-lb/in ² (kJ/m ²)	
73°F (23°C)	33 (70)	46 (97)	ft-lb/in ² (kJ/m ²)	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
66 psi (0.45 MPa), Unannealed	424 (218)	--	°F (°C)	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	379 (193)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature	417 (214)	--	°F (°C)	ISO 306/B50
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate				
0.0787 in (2.00 mm)	< 3.9 (< 100)	--	in/min (mm/min)	ISO 3795
0.0787 in (2.00 mm)	< 3.9 (< 100)	--	in/min (mm/min)	FMVSS 302

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Additional Information

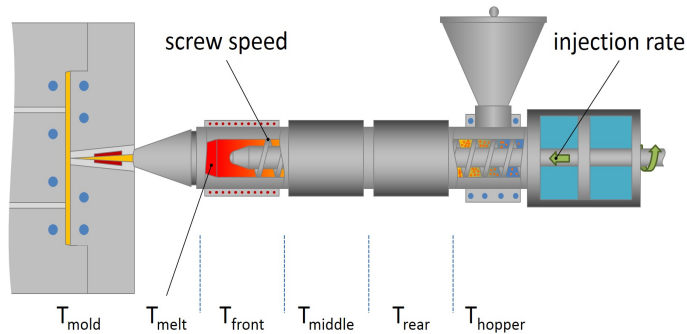
- 1.) Not for use in food contact applications
- 2.) Not for use in medical or pharmaceutical applications

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Injection	Dry (English)	Dry (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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