

Technical Data Sheet

**Schulamid 6 GF 50 K1906 U**

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description

50% glassfiber reinforced PA, improved surface, UV stabilized

General

Material Status	• Commercial: Active
Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 50% Filler by Weight
Features	• High Stiffness • High Tensile Strength
Processing Method	• Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.61	--	g/cm ³	ISO 1183/A
Water Absorption				ISO 62
Equilibrium, 73°F (23°C), 50% RH	1.3	--	%	
Viscosity Number	130	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2.39E+6 (16500)	1.57E+6 (10800)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	24700 (170)	13300 (92.0)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	1.5	2.6	%	ISO 527-2/1A/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (73°F (23°C))	3.1 (6.5)	3.8 (8.0)	ft·lb/in ² (kJ/m ²)	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
73°F (23°C)	26 (55)	22 (47)	ft·lb/in ² (kJ/m ²)	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
66 psi (0.45 MPa), Unannealed	421 (216)	--	°F (°C)	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	394 (201)	--	°F (°C)	ISO 75-2/Af
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate	< 3.9 (< 100)	--	in/min (mm/min)	ISO 3795

Additional Information

Experimental Grade

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Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time - Desiccant Dryer	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
Residence Time	< 7.0 min	< 7.0 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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