Technical Data Sheet

Schulamid 6 GF 50 K1906 LS

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description
50% glassfiber reinforced PA, improved surface, UV stabilized

General		
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/cm³	ISO 1183/A
Water Absorption				ISO 62
Equilibrium, 73°f (23°c), 50% Rh	1.3	--	%	
Viscosity Number	130	--	cm³/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/in² (kJ/m²)	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
73°f (23°c)	26 (55)	22 (47)	ft·lb/in² (kJ/m²)	

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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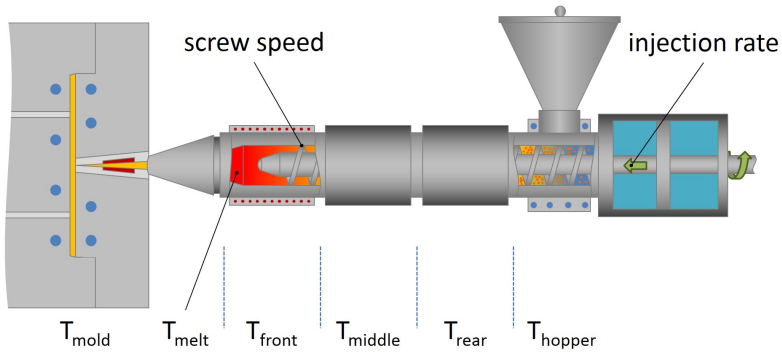

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time - Desiccant Dryer	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Processing (Melt) Temp	482 to 536 °F	250 to 280 °C
Mold Temperature	140 to 212 °F	60 to 100 °C
Residence Time	< 7.0 min	< 7.0 min

Notes

These are typical property values not to be construed as specification limits.