

Schulamid 6 GF 40 H

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description

40% glass fiber reinforced, heat stabilized Polyamide 6

General

Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight
Features	• Heat Stabilized • High Stiffness
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PA6 GF40

Physical	Dry	Conditioned	Unit	Test Method
Density	1.45	--	g/cm ³	ISO 1183/A
Viscosity Number	145	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2.03E+6 (14000)	1.23E+6 (8500)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	29000 (200)	18600 (128)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	2.8	6.3	%	ISO 527-2/1A/5
Flexural Modulus ¹	1.74E+6 (12000)	--	psi (MPa)	ISO 178
Flexural Stress ¹	43500 (300)	--	psi (MPa)	ISO 178
Flexural Strain at Flexural Strength	3.5	--	%	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	4.8 (10)	--	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	6.7 (14)	10 (22)	ft·lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	41 (86)	--	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	45 ft·lb/in ² (94 kJ/m ²)	No Break	(kJ/m ²)	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
66 Psi (0.45 Mpa), Unannealed	419 (215)	--	°F (°C)	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	401 (205)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	414 (212)	--	°F (°C)	ISO 306/B50
--	421 (216)	--	°F (°C)	ISO 306/A50





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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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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

Notes
¹ 0.079 in/min (2.0 mm/min)

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

