

Technical Data Sheet

Schulamid 6 GF 50 HE

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description

50% glass fiber reinforced PA 6, high strength and stiffness, heat stabilized

General

Filler / Reinforcement	• Glass Fiber, 50% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Heat Stabilized	• High Stiffness	• High Strength
Processing Method	• Injection Molding		

Physical	Dry	Conditioned	Unit	Test Method
Density	1.55	--	g/cm ³	ISO 1183/A
Viscosity Number	145	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2.32E+6 (16000)	1.45E+6 (10000)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	30500 (210)	21800 (150)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	2.0	3.0	%	ISO 527-2/1A/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (73°F (23°C))	7.1 (15)	13 (28)	ft·lb/in ² (kJ/m ²)	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F (23°C)	48 (100)	51 (110)	ft·lb/in ² (kJ/m ²)	ISO 179/1eU
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	40600 (280)	--	psi (MPa)	ISO 2039-1
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	410 (210)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature	419 (215)	--	°F (°C)	ISO 306/B50
Ball Pressure Test (374°F (190°C))	Pass	--		IEC 60695-10-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	> 1.0E+15	--	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	1.0E+10	ohms·m	IEC 62631-3-1
Comparative Tracking Index	450	--	V	IEC 60112

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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
Flammability Classification				IEC 60695-11-10, -20
0.030 In (0.75 Mm)	HB	--		
Glow Wire Flammability Index	1200 (650)	--	°F (°C)	IEC 60695-2-12

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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

Injection Notes

Shrinkage: flow direction 0.1 - 0.3 %, cross flow 0.7 - 0.9 %

Shrinkage depends on wall thickness, process parameters, gate design and location, flow length and other parameters, that are individual for every part and process. We recommend to test the material in a comparable parts mold.

Notes

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