

Technical Data Sheet

Schulamid 6 GF 30 HI K1753

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description

30% glass fiber reinforced PA 6, impact modified

General

Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Impact Modifier
Features	• Impact Modified
Processing Method	• Injection Molding

Physical

	Dry	Conditioned	Unit	Test Method
Density	1.30	--	g/cm ³	ISO 1183/A
Viscosity Number	145	--	cm ³ /g	ISO 307

Mechanical

	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.19E+6 (8200)	682000 (4700)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	18900 (130)	13100 (90.0)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	4.0	9.0	%	ISO 527-2/1A/5

Impact

	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°f (-30°c)	5.7 (12)	--	ft·lb/in ² (kJ/m ²)	
73°f (23°c)	12 (25)	17 (35)	ft·lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°f (-30°c)	36 (75)	--	ft·lb/in ² (kJ/m ²)	
73°f (23°c)	40 (85)	45 (95)	ft·lb/in ² (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	392 (200)	--	°F (°C)	ISO 75-2/ Af
Vicat Softening Temperature				
--	396 (202)	--	°F (°C)	ISO 306/B50
--	423 (217)	--	°F (°C)	ISO 306/A120

Electrical

	Dry	Conditioned	Unit	Test Method
Surface Resistivity	> 1.0E+15	--	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	--	ohms·m	IEC 62631-3-1



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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

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