

Technical Data Sheet

Schulamid 6 CF 30 H Black

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description

30% carbon fiber reinforced Polyamide 6, available with different kinds of Heat Stabilizations Systems

General

Filler / Reinforcement	• Carbon Fiber, 30% Filler by Weight
Processing Method	• Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.26	--	g/cm ³	ISO 1183/A
Viscosity Number	145	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3.05E+6 (21000)	1.89E+6 (13000)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	31900 (220)	23900 (165)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	2.5	4.5	%	ISO 527-2/1A/5
Flexural Modulus ¹	2.68E+6 (18500)	--	psi (MPa)	ISO 178
Flexural Stress ¹				ISO 178
3.0% Strain	47900 (330)	--	psi (MPa)	
3.0% Strain ²	46400 (320)	--	psi (MPa)	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	3.6 (7.5)	--	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	5.2 (11)	8.6 (18)	ft·lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	31 (65)	--	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	33 (70)	43 (90)	ft·lb/in ² (kJ/m ²)	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2/Af
264 Psi (1.8 Mpa), Unannealed	419 (215)	--	°F (°C)	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+2	--	ohms·m	IEC 62631-3-1
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	500 to 572 °F	260 to 300 °C
Mold Temperature	140 to 248 °F	60 to 120 °C

Notes

¹ 0.079 in/min (2.0 mm/min)

² at Break

Notes

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