

Technical Data Sheet

Schulamid 6 MKF 3010 H

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description

30% glass fiber and mineral reinforced Polyamide 6; heat stabilized

General

Filler / Reinforcement	• Glass\Mineral, 30% Filler by Weight		
Features	• Good Surface Finish • Heat Aging Resistant	• Low Warpage • Oil Resistant	
Processing Method	• Injection Molding		

Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	--	g/cm ³	ISO 1183/A
Water Absorption				ISO 62
Equilibrium, 73°F (23°C), 50% Rh	1.7	--	%	
Viscosity Number	145	--	cm ³ /g	ISO 307

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	870000 (6000)	653000 (4500)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	14500 (100)	8700 (60.0)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	3.5	5.0	%	ISO 527-2/1A/5

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	1.9 (4.0)	--	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	2.9 (6.0)	4.8 (10)	ft·lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	17 (35)	--	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	19 (40)	28 (58)	ft·lb/in ² (kJ/m ²)	

Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
66 Psi (0.45 Mpa), Unannealed	410 (210)	--	°F (°C)	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	347 (175)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	419 (215)	--	°F (°C)	ISO 306/B50
--	428 (220)	--	°F (°C)	ISO 306/A50

Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	> 1.0E+15	> 1.0E+12	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	> 1.0E+10	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
Flammability Classification				IEC 60695-11-10, -20
0.06 In (1.5 Mm)	HB	--		
0.12 In (3.0 Mm)	HB	--		

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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.