Technical Data Sheet

Schulamid 6 GF 30 HI BLACK

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description
30% glass fiber reinforced high impact Polyamid 6

General			
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Features	• Chemical Resistant • Good Flow	• Good Toughness • High Impact Resistance	• Oil Resistant
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA6I GF30		

Physical	Dry	Conditioned	Unit	Test Method
Density	1.28	--	g/cm³	ISO 1183/A
Water Absorption				ISO 62
Equilibrium, 73°f (23°c), 50% Rh	1.9	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	1.16E+6 (8000)	696000 (4800)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	19600 (135)	13100 (90.0)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	5.0	6.5	%	ISO 527-2/1A/5
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-22°f (-30°c)	6.7 (14)	--	ft·lb/in² (kJ/m²)	
73°f (23°c)	10 (22)	19 (40)	ft·lb/in² (kJ/m²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°f (-30°c)	38 (80)	--	ft·lb/in² (kJ/m²)	
73°f (23°c)	40 ft·lb/in² (85 kJ/m²)	No Break	(kJ/m²)	
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Ball Indentation Hardness (H 358/30)	25400 (175)	16700 (115)	psi (MPa)	ISO 2039-1
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				
66 Psi (0.45 Mpa), Unannealed	392 (200)	--	°F (°C)	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	374 (190)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	392 (200)	--	°F (°C)	ISO 306/B50
--	410 (210)	--	°F (°C)	ISO 306/A50

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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
Comparative Tracking Index	550	--	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Burning Rate				
0.0787 In (2.00 Mm)	1.8 (45)	--	in/min (mm/min)	ISO 3795
0.0787 In (2.00 Mm)	1.8 (45)	--	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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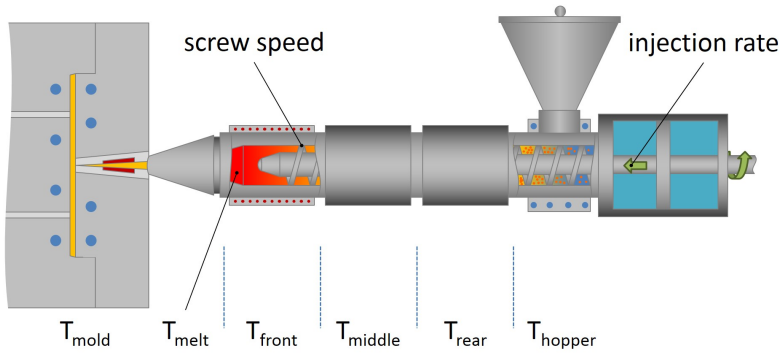

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Processing (Melt) Temp	482 to 536 °F	250 to 280 °C
Mold Temperature	140 to 212 °F	60 to 100 °C

Notes

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