Technical Data Sheet

Schulamid 6 GF 50 HI K1666

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description
50% glass fiber reinforced PA 6, high strength and stiffness, impact modified

General			
Filler / Reinforcement	• Glass Fiber, 50% Filler by Weight		
Additive	• Impact Modifier		
Features	• High Stiffness	• High Strength	• Impact Modified
Processing Method	• Injection Molding		

Physical	Dry	Conditioned	Unit	Test Method
Density	1.54	--	g/cm³	ISO 1183/A
Viscosity Number	140	--	cm³/g	ISO 307
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	2.18E+6 (15000)	1.31E+6 (9000)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	25400 (175)	16700 (115)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	2.6	5.0	%	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)	8.6 (18)	13 (27)	ft·lb/in² (kJ/m²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°f (-30°c)	31 (65)	--	ft·lb/in² (kJ/m²)	
73°f (23°c)	38 ft·lb/in² (80 kJ/m²)	No Break	(kJ/m²)	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				
66 Psi (0.45 Mpa), Unannealed	437 (225)	--	°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
--	432 (222)	--	°F (°C)	ISO 306/A120
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

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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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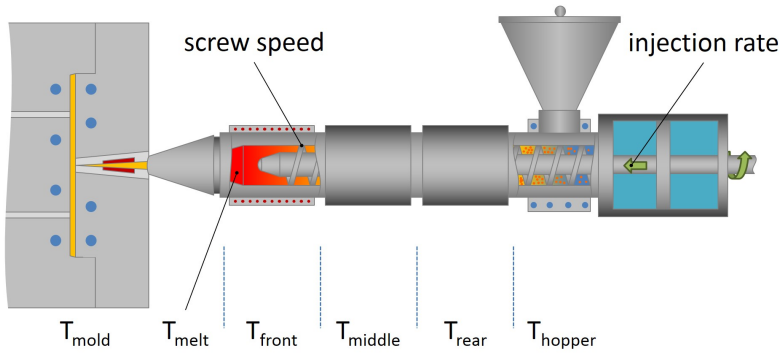

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Processing (Melt) Temp	482 to 536 °F	250 to 280 °C
Mold Temperature	140 to 212 °F	60 to 100 °C

Notes

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