Technical Data Sheet

Schulamid 6 LGF30 6mm

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description
30% long glass fiber reinforced Polyamide 6

General	
Filler / Reinforcement	• Long Glass Fiber, 30% Filler by Weight
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PA6-GF30

Physical	Dry	Conditioned	Unit	Test Method
Density	1.37	--	g/cm³	ISO 1183/A
Viscosity Number	155	--	cm³/g	ISO 307
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	1.48E+6 (10200)	914000 (6300)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	29000 (200)	16700 (115)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	2.8	5.0	%	ISO 527-2/1A/5
Flexural Modulus	1.54E+6 (10600)	--	psi (MPa)	ISO 178
Flexural Stress	44200 (305)	--	psi (MPa)	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-22°f (-30°c)	7.1 (15)	--	ft·lb/in² (kJ/m²)	
73°f (23°c)	8.6 (18)	12 (25)	ft·lb/in² (kJ/m²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°f (-30°c)	26 (55)	--	ft·lb/in² (kJ/m²)	
73°f (23°c)	29 (60)	43 (90)	ft·lb/in² (kJ/m²)	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				
66 Psi (0.45 Mpa), Unannealed	441 (227)	--	°F (°C)	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	424 (218)	--	°F (°C)	ISO 75-2/Af
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Comparative Tracking Index	400	--	V	IEC 60112

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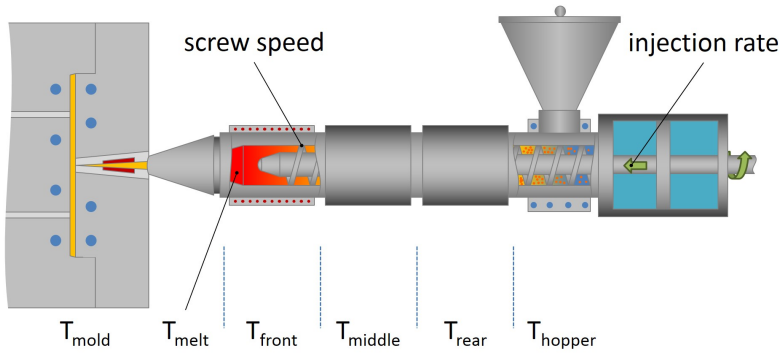

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Processing (Melt) Temp	482 to 536 °F	250 to 280 °C
Mold Temperature	140 to 212 °F	60 to 100 °C

Notes

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