Technical Data Sheet

Schulamid 6 GF 30 HI K1704

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description	
30% glass fiber reinforced PA 6, impact modified	

General	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Impact Modifier
Features	• Impact Modified
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >PA6-GF30<

Physical	Dry	Conditioned	Unit	Test Method
Density	1.28	--	g/cm³	ISO 1183/A
Viscosity Number	145	--	cm³/g	ISO 307
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	1.16E+6 (8000)	653000 (4500)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	18100 (125)	11600 (80.0)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	5.0	10	%	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)	11 (24)	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)	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				
66 Psi (0.45 Mpa), Unannealed	414 (212)	--	°F (°C)	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	392 (200)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	378 (192)	--	°F (°C)	ISO 306/B50
--	410 (210)	--	°F (°C)	ISO 306/A120
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

Technical Data Sheet

Schulamid 6 GF 30 HI K1704

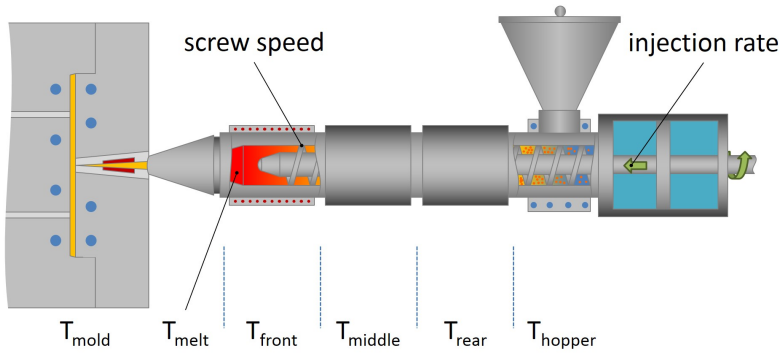
Polyamide 6
LyondellBasell Industries
Engineering Plastics

Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate				
0.0787 In (2.00 Mm)	1.7 (42)	--	in/min (mm/min)	ISO 3795
0.0787 In (2.00 Mm)	1.7 (42)	--	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	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.06 In (1.5 Mm)	1200 (650)	--	°F (°C)	
0.12 In (3.0 Mm)	1200 (650)	--	°F (°C)	

Technical Data Sheet

Schulamid 6 GF 30 HI K1704

Polyamide 6
LyondellBasell Industries
Engineering Plastics



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.