Technical Data Sheet

Schulamid 6 GBF 3020 K1697

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description
30% glass fibre and glass bead reinforced PA 6

General		
Filler / Reinforcement	• Glass Bead\Glass Fiber, 30% Filler by Weight	
Features	• High Strength	• Low Warpage
Processing Method	• Injection Molding	

Physical	Dry	Conditioned	Unit	Test Method
Density	1.34	--	g/cm³	ISO 1183/A
Viscosity Number	147	--	cm³/g	ISO 307
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	1.09E+6 (7500)	616000 (4250)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	21500 (148)	13100 (90.0)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	4.3	10	%	ISO 527-2/1A/5
Flexural Modulus [1]	899000 (6200)	--	psi (MPa)	ISO 178
Flexural Stress [1]				ISO 178
5.5% Strain	29700 (205)	--	psi (MPa)	
3.5% Strain	26800 (185)	--	psi (MPa)	
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-22°f (-30°c)	3.4 (7.2)	--	ft·lb/in² (kJ/m²)	
73°f (23°c)	4.5 (9.5)	9.5 (20)	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)	33 (70)	46 (97)	ft·lb/in² (kJ/m²)	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				
66 Psi (0.45 Mpa), Unannealed	424 (218)	--	°F (°C)	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	379 (193)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature	417 (214)	--	°F (°C)	ISO 306/B50
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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Additional Information

1.) Not for use in food contact applications
2.) Not for use in medical or pharmaceutical applications

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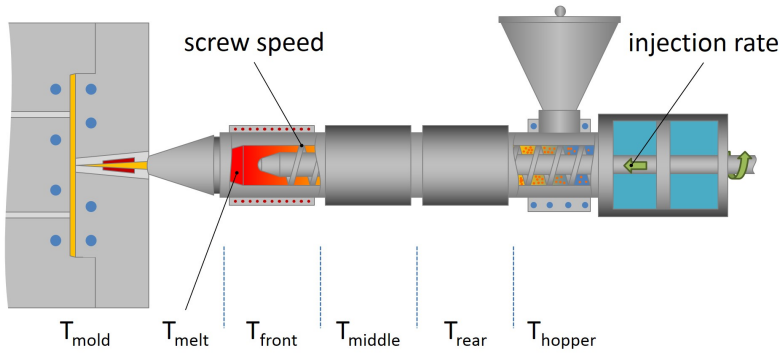

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Processing (Melt) Temp	482 to 536 °F	250 to 280 °C
Mold Temperature	140 to 212 °F	60 to 100 °C

Notes

[1] 0.079 in/min (2.0 mm/min)

Notes

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