Technical Data Sheet

Schulamid PPA GF 33

Polyphthalamide
LyondellBasell Industries
Engineering Plastics

Product Description
Polyphthalamid with 33% GF, high stiffness and strength at high temperatures, heatstabilzed, high chemical resistence

General	
Filler / Reinforcement	• Glass Fiber, 33% Filler by Weight
Processing Method	• Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.46	--	g/cm³	ISO 1183/A
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	1.99E+6 (13700)	1.74E+6 (12000)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	28300 (195)	23500 (162)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	2.0	1.6	%	ISO 527-2/1A/5
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-22°f (-30°c)	4.8 (10)	--	ft·lb/in² (kJ/m²)	
73°f (23°c)	4.8 (10)	4.8 (10)	ft·lb/in² (kJ/m²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°f (-30°c)	21 (45)	--	ft·lb/in² (kJ/m²)	
73°f (23°c)	33 (70)	18 (37)	ft·lb/in² (kJ/m²)	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				
66 Psi (0.45 Mpa), Annealed, 0.130 In (3.30 Mm) [1]	567 (297)	--	°F (°C)	ISO 75-2/B
264 Psi (1.8 Mpa), Unannealed	536 (280)	--	°F (°C)	ISO 75-2/A
264 Psi (1.8 Mpa), Annealed, 0.126 In (3.20 Mm)	545 (285)	--	°F (°C)	ISO 75-2/A
Vicat Softening Temperature	577 (303)	--	°F (°C)	ISO 306/B
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

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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
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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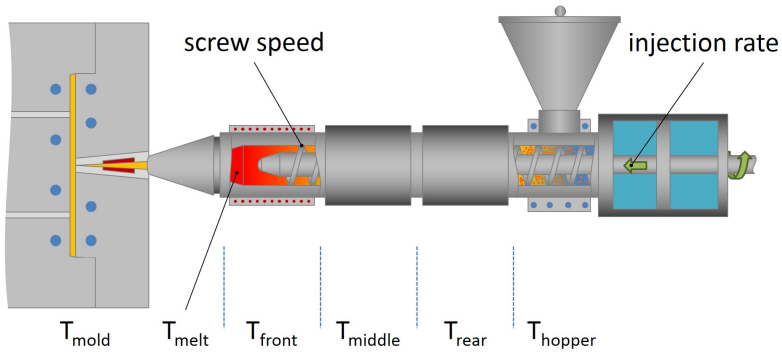

Injection	Dry (English)	Dry (SI)
Drying Temperature	248 °F	120 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Processing (Melt) Temp	590 to 653 °F	310 to 345 °C
Mold Temperature	248 to 320 °F	120 to 160 °C