Technical Data Sheet

Schulamid 612 GF 33 H2

Polyamide 612
LyondellBasell Industries
Engineering Plastics

Product Description
33% glass fiber reinforced, Polyamide 612 Compound, with electrical neutral heat stabilization and high strength after conditioning

General			
Filler / Reinforcement	• Glass Fiber, 33% Filler by Weight		
Features	• Chemical Resistant	• Halogen Free	• Heat Aging Resistant
Processing Method	• Injection Molding		

Physical	Dry	Conditioned	Unit	Test Method
Density	1.32	--	g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (245°c/5.0 Kg)	32	--	cm³/10min	ISO 1133
Water Absorption				ISO 62
Equilibrium, 73°f (23°c), 50% Rh	0.90	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	1.45E+6 (10000)	1.16E+6 (8000)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	25400 (175)	19600 (135)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	3.2	4.4	%	ISO 527-2/1A/5
Flexural Modulus [1] (73°f (23°c))	1.31E+6 (9000)	--	psi (MPa)	ISO 178
Flexural Stress [1]				ISO 178
3.5% Strain	36300 (250)	--	psi (MPa)	
3.7% Strain [2]	36300 (250)	--	psi (MPa)	
3.7% Strain, 73°f (23°c)	37000 (255)	--	psi (MPa)	
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°f (23°c))	7.1 (15)	7.1 (15)	ft·lb/in² (kJ/m²)	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
73°f (23°c)	43 (90)	40 (85)	ft·lb/in² (kJ/m²)	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				
66 Psi (0.45 Mpa), Unannealed	417 (214)	--	°F (°C)	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	383 (195)	--	°F (°C)	ISO 75-2/Af
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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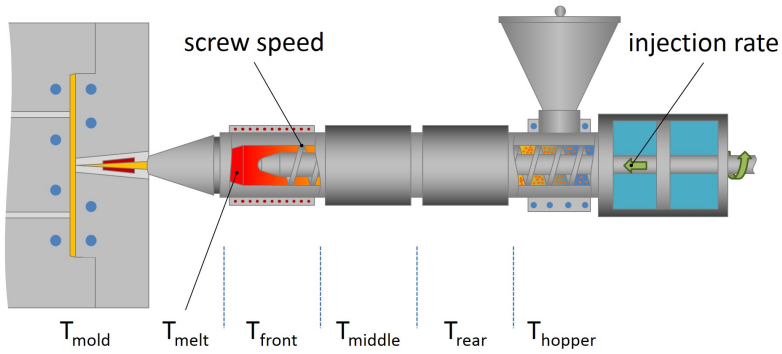

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Processing (Melt) Temp	464 to 536 °F	240 to 280 °C
Mold Temperature	122 to 194 °F	50 to 90 °C

Notes

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

[2] at Break

Notes

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