Technical Data Sheet

Schulamid 612 GF 50 H

Polyamide 612
LyondellBasell Industries
Engineering Plastics

Product Description	
50% glass fiber reinforced Polyamid 612 compound, heat stabilised	

General	
Filler / Reinforcement	• Glass Fiber, 50% Filler by Weight
Additive	• Heat Stabilizer
Features	• Heat Stabilized
Processing Method	• Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.54	--	g/cm³	ISO 1183/A
Water Absorption				ISO 62
Equilibrium, 73°f (23°c), 50% Rh	1.2	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	2.39E+6 (16500)	1.74E+6 (12000)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	29000 (200)	21000 (145)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	2.0	2.5	%	ISO 527-2/1A/5
Flexural Modulus [1] (73°f (23°c))	2.18E+6 (15000)	--	psi (MPa)	ISO 178
Flexural Stress [1] (73°f (23°c))	43500 (300)	--	psi (MPa)	ISO 178
Flexural Strain at Flexural Strength				ISO 178
73°f (23°c)	2.5	--	%	
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-22°f (-30°c)	5.2 (11)	--	ft·lb/in² (kJ/m²)	
73°f (23°c)	6.2 (13)	7.6 (16)	ft·lb/in² (kJ/m²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°f (-30°c)	30 (64)	--	ft·lb/in² (kJ/m²)	
73°f (23°c)	33 (70)	34 (72)	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	401 (205)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	406 (208)	--	°F (°C)	ISO 306/B50
--	421 (216)	--	°F (°C)	ISO 306/A50

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Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Burning Rate (0.0787 In (2.00 Mm))	2.0 (50)	--	in/min (mm/min)	ISO 3795
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)	1340 (725)	--	°F (°C)	
0.12 In (3.0 Mm)	1470 (800)	--	°F (°C)	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.06 In (1.5 Mm)	1380 (750)	--	°F (°C)	
0.12 In (3.0 Mm)	1520 (825)	--	°F (°C)	

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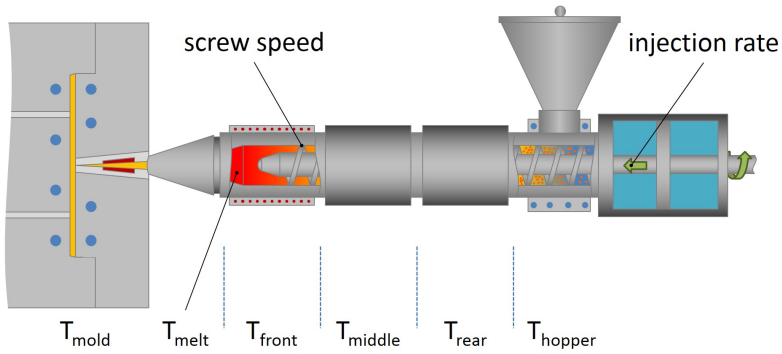

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	4.0 to 8.0 hr	4.0 to 8.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Processing (Melt) Temp	464 to 536 °F	240 to 280 °C
Mold Temperature	122 to 194 °F	50 to 90 °C

Notes

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

Notes

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