Technical Data Sheet

Schulamid 612 GF 33

Polyamide 612
LyondellBasell Industries
Engineering Plastics

Product Description
33% glass fiber reinforced, Polyamide 612 compound

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

Physical	Dry	Conditioned	Unit	Test Method
Density	1.34	--	g/cm³	ISO 1183/A
Water Absorption				ISO 62
Equilibrium, 73°f (23°c), 50% Rh	1.3	--	%	

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.45E+6 (10000)	1.17E+6 (8050)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	23900 (165)	17700 (122)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	2.6	4.3	%	ISO 527-2/1A/5
Flexural Modulus [1] (73°f (23°c))	1.26E+6 (8700)	--	psi (MPa)	ISO 178
Flexural Stress [1] (73°f (23°c))	34100 (235)	--	psi (MPa)	ISO 178
Flexural Strain at Flexural Strength				ISO 178
73°f (23°c)	3.40	--		

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°f (-40°c)	3.8 (8.0)	--	ft·lb/in² (kJ/m²)	
-22°f (-30°c)	3.8 (8.0)	--	ft·lb/in² (kJ/m²)	
73°f (23°c)	4.3 (9.0)	4.8 (10)	ft·lb/in² (kJ/m²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-40°f (-40°c)	24 (50)	--	ft·lb/in² (kJ/m²)	
-22°f (-30°c)	26 (55)	--	ft·lb/in² (kJ/m²)	
73°f (23°c)	29 (60)	33 (70)	ft·lb/in² (kJ/m²)	

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Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
66 Psi (0.45 Mpa), Unannealed	421 (216)	--	°F (°C)	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	390 (199)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	408 (209)	--	°F (°C)	ISO 306/B50
--	417 (214)	--	°F (°C)	ISO 306/A50
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Burning Rate (0.0787 In (2.00 Mm))	< 3.9 (< 100)	--	in/min (mm/min)	ISO 3795
Flame Rating				UL 94 IEC 60695-11-10, -20
0.06 In (1.6 Mm)	HB	--		
0.13 In (3.2 Mm)	HB	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.06 In (1.5 Mm)	1250 (675)	--	°F (°C)	
0.12 In (3.0 Mm)	1290 (700)	--	°F (°C)	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.06 In (1.5 Mm)	1290 (700)	--	°F (°C)	
0.12 In (3.0 Mm)	1340 (725)	--	°F (°C)	

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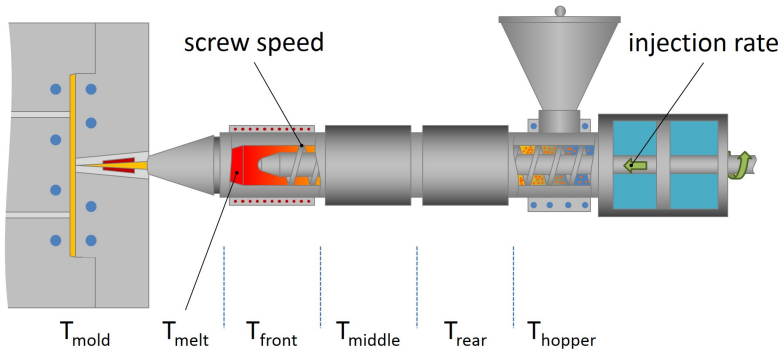

Injection	Dry (English)	Dry (SI)
Processing (Melt) Temp	464 to 536 °F	240 to 280 °C
Mold Temperature	176 to 230 °F	80 to 110 °C

Notes

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

Notes

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