

Schulamid 612 GF 30 H

Polyamide 612
LyondellBasell Industries
Engineering Plastics

Product Description

30% glass fiber reinforced, Polyamide 612 compound, heat stabilized

General

Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Processing Method	• Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.30	--	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (245°C/5.0 Kg)	20	--	cm ³ /10min	ISO 1133
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.31E+6 (9000)	957000 (6600)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	20300 (140)	14500 (100)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	3.3	6.0	%	ISO 527-2/1A/5
Flexural Modulus ¹ (73°F (23°C))	1.09E+6 (7500)	--	psi (MPa)	ISO 178
Flexural Stress ¹ (4.0% Strain, 73°F (23°C))	31900 (220)	--	psi (MPa)	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°F (-40°C)	2.4 (5.0)	--	ft·lb/in ² (kJ/m ²)	
-22°F (-30°C)	2.9 (6.0)	--	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	3.8 (8.0)	4.8 (10)	ft·lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-40°F (-40°C)	24 (50)	--	ft·lb/in ² (kJ/m ²)	
-22°F (-30°C)	24 (50)	--	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	29 (60)	31 (65)	ft·lb/in ² (kJ/m ²)	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
66 Psi (0.45 Mpa), Unannealed	412 (211)	--	°F (°C)	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	376 (191)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	399 (204)	--	°F (°C)	ISO 306/B50
--	417 (214)	--	°F (°C)	ISO 306/A50



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Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	2.3E+13	--	ohms	IEC 60093
Volume Resistivity	2.8E+14	--	ohms-cm	IEC 60093
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (0.0787 In (2.00 Mm))	< 3.9 (< 100)	--	in/min (mm/min)	ISO 3795
Glow Wire Flammability Index				IEC 60695-2-12
0.06 In (1.5 Mm)	1250 (675)	--	°F (°C)	
0.12 In (3.0 Mm)	1250 (675)	--	°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)	1290 (700)	--	°F (°C)	

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 6.0 hr	3.0 to 6.0 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.

