

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

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
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/cm ³	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/in ² (kJ/m ²)	
73°F (23°C)	6.2 (13)	7.6 (16)	ft-lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	30 (64)	--	ft-lb/in ² (kJ/m ²)	
73°F (23°C)	33 (70)	34 (72)	ft-lb/in ² (kJ/m ²)	

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

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Notes

¹ 0.079 in/min (2.0 mm/min)

Notes

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

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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