

Badamid® PA612 GF50

Polyamide 612

Bada AG

Message:

Badamid® PA612 GF50 is a Polyamide 612 (Nylon 612) material filled with 50% glass fiber. It is available in Europe for injection molding. Primary attribute of Badamid® PA612 GF50: Flame Rated.

General Information				
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		>PA612-GF50<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.51	--	g/cm ³	ISO 1183
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus ¹ (23°C)	13800	11900	MPa	ISO 527-2/1
Tensile Stress ² (Break, 23°C)	195	178	MPa	ISO 527-2/1A/5
Tensile Strain ³ (Break, 23°C)	2.5	2.9	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	20	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	90	--	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	212	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	205	--	°C	ISO 75-2/A
Melting Temperature (DSC) ⁴	218	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity (1.00 mm)	1.0E+12	--	ohms·cm	IEC 60093
Electric Strength (1.00 mm)	35	--	kV/mm	IEC 60243-1
Comparative Tracking Index	550	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm	HB	--		
1.60 mm	HB	--		
Injection	Dry	Unit		
Drying Temperature	80.0		°C	

Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	240 to 280	°C
Mold Temperature	60.0 to 90.0	°C

NOTE		
1.	Test Specimen accordng to ISO 3167, Type A	
2.	Test Specimen accordng to ISO 3167, Type A	
3.	Test Specimen accordng to ISO 3167, Type A	
4.	10 K/Min	

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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