

Badamid® PA610 GF50

Polyamide 610

Bada AG

Message:

Badamid® PA610 GF50 is a Polyamide 610 (Nylon 610) material filled with 50% glass fiber. It is available in Europe for injection molding. Primary attribute of Badamid® PA610 GF50: Flame Rated.

General Information				
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		>PA610-GF50<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.57	--	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	0.90	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	16300	15000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	240	200	MPa	ISO 527-2/1A/5
Tensile Strain (Break, 23°C)	2.5	3.0	%	ISO 527-2/1A/5
Flexural Stress (23°C, 4.00 mm)	350	290	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	14	--	kJ/m ²	
23°C	18	--	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	75	--	kJ/m ²	
23°C	95	--	kJ/m ²	
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) 1	220	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity (1.00 mm)	1.0E+12	--	ohms · cm	IEC 60093
Comparative Tracking Index	450	--	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	250 to 290		°C
Mold Temperature	60.0 to 90.0		°C
NOTE			
1.	10 K/Min		

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Recommended distributors for this material

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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