

Badamid® PA612 GF33

Polyamide 612

Bada AG

Message:

Badamid® PA612 GF33 is a Polyamide 612 (Nylon 612) material filled with 33% glass fiber. It is available in Europe for injection molding. Primary attribute of Badamid® PA612 GF33: Flame Rated.

General Information				
Filler / Reinforcement		Glass Fiber,33% Filler by Weight		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		>PA612-GF33<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.32	--	g/cm ³	ISO 1183
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus ¹ (23°C)	9500	7900	MPa	ISO 527-2/1
Tensile Stress ² (Break, 23°C)	168	140	MPa	ISO 527-2/1A/5
Tensile Strain ³ (Break, 23°C)	3.0	3.2	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	80	--	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	200	--	°C	ISO 75-2/A
Melting Temperature (DSC) ⁴	218	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm	HB	--		
1.60 mm	HB	--		
Glow Wire Flammability Index (0.750 to 1.60 mm)	675	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (0.750 to 1.60 mm)	700	--	°C	IEC 60695-2-13
Injection	Dry	Unit		
Drying Temperature	80.0		°C	

Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	280 to 300	°C
Mold Temperature	70.0 to 120	°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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