

Badamid® PA612 CF30

Polyamide 612

Bada AG

Message:

Badamid® PA612 CF30 is a Polyamide 612 (Nylon 612) material filled with 30% carbon fiber. It is available in Europe for injection molding. Primary attribute of Badamid® PA612 CF30: Flame Rated.

General Information				
Filler / Reinforcement		Carbon Fiber,30% Filler by Weight		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		>PA612-CF30<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.60	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	1.2	--	%	
Equilibrium, 23°C, 50% RH	0.50	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	16500	14900	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	190	130	MPa	ISO 527-2/1A/5
Tensile Strain (Break, 23°C)	2.0	2.6	%	ISO 527-2/1A/5
Flexural Stress (23°C, 4.00 mm)	250	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	12	--	kJ/m ²	
23°C	15	--	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	65	--	kJ/m ²	
23°C	70	--	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	105	--	°C	ISO 75-2/A
Melting Temperature (DSC) 1	218	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity (1.00 mm)	1.0E+2	--	ohms · cm	IEC 60093

Comparative Tracking Index	< 100	--	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.	10 K/Min			

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