

Badamid® A70 GF30 H

Polyamide 66

Bada AG

Message:

Badamid® A70 GF30 H is a polyamide 66 (nylon 66) material, which contains a 30% glass fiber reinforced material. This product is available in Europe.
Badamid® The main characteristics of A70 GF30 H are: flame retardant/rated flame.

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 30% filler by weight		
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.38	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturated, 23°C	6.0	--	%	ISO 62
Equilibrium, 23°C, 50% RH	2.0	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	10000	7100	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	190	130	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.0	5.0	%	ISO 527-2/5
Flexural Stress (23°C)	270	220	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	14	17	kJ/m ²	ISO 179/1eA
23°C	14	17	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	70	73	kJ/m ²	ISO 179/1eU
23°C	85	95	kJ/m ²	ISO 179/1eU
Notched Izod Impact				ISO 180/1A
-30°C	12	10	kJ/m ²	ISO 180/1A
23°C	13	16	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ¹				
0.45 MPa, not annealed	250	--	°C	ISO 75-2/B
1.8 MPa, not annealed	250	--	°C	ISO 75-2/A
Melting Temperature (DSC)	262	--	°C	ISO 3146
Linear thermal expansion coefficient				ISO 11359-2
Flow: 4.00mm	1.8E-5	--	cm/cm/°C	ISO 11359-2

Lateral: 4.00mm	6.4E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Dielectric Strength	35	30	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.50	--		IEC 60250
Dissipation Factor (1 MHz)	0.014	0.16		IEC 60250
Comparative Tracking Index	500	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm	HB	--		UL 94
1.60 mm	HB	--		UL 94
Additional Information				
干燥				
Short-Term Heat Resistance, IEC 216, 20000 hrs: 230°C Long-Term Heat Resistance, IEC 216, 50% decrease of yield stress: 120°C				
Injection	Dry	Unit		
Processing (Melt) Temp	285 - 305		°C	
Mold Temperature	80.0 - 110		°C	
NOTE				
1.	110x10x4mm			

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