

Badamid® UL B70 GF30 H

Polyamide 6

Bada AG

Message:

Badamid® UL B70 GF30 H is a polyamide 6 (nylon 6) material, which contains a 30% glass fiber reinforced material. This product is available in Europe.
Badamid® The main characteristics of UL B70 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	1.35	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturated, 23°C	6.7	--	%	ISO 62
Equilibrium, 23°C, 50% RH	2.1	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	9350	6200	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	175	110	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.5	5.5	%	ISO 527-2/5
Flexural Stress (23°C)	245	200	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	14	22	kJ/m ²	ISO 179/1eA
23°C	15	24	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	80	90	kJ/m ²	ISO 179/1eU
23°C	90	110	kJ/m ²	ISO 179/1eU
Notched Izod Impact				ISO 180/1A
-30°C	12	16	kJ/m ²	ISO 180/1A
23°C	15	20	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ¹				
0.45 MPa, not annealed	220	--	°C	ISO 75-2/B
1.8 MPa, not annealed	210	--	°C	ISO 75-2/A
Melting Temperature (DSC)	222	--	°C	ISO 3146
Linear thermal expansion coefficient				ISO 11359-2
Flow: 4.00mm	2.0E-5	--	cm/cm/°C	ISO 11359-2

Lateral: 4.00mm	6.2E-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 Constant (1 MHz)	3.80	6.80		IEC 60250
Dissipation Factor (1 MHz)	0.023	0.22		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				
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Short-Term Heat Resistance, IEC 216, 20000 hrs: 200°C Long-Term Heat Resistance, IEC 216, 50% decrease of yield stress: 120°C				
Injection	Dry	Unit		
Processing (Melt) Temp	260 - 280		°C	
Mold Temperature	80.0 - 90.0		°C	
NOTE				
1.	110x10x4mm			

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