

Badamid® B70 GF/M30 FR

Polyamide 6

Bada AG

Message:

Badamid® B70 GF/M30 FR is a polyamide 6 (nylon 6) material containing 30% glass \mineral. This product is available in Europe. Badamid® The main characteristics of B70 GF/M30 FR are: flame retardant/rated flame.

General Information				
Filler / Reinforcement		Glass \mineral, 30% filler by weight		
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.51	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturated, 23°C	5.2	--	%	ISO 62
Equilibrium, 23°C, 50% RH	1.7	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	7800	5000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	130	95.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	2.0	4.0	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	6.0	8.0	kJ/m ²	ISO 179/1eA
23°C	8.0	12	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	45	55	kJ/m ²	ISO 179/1eU
23°C	50	65	kJ/m ²	ISO 179/1eU
Notched Izod Impact				ISO 180/1A
-30°C	5.0	6.0	kJ/m ²	ISO 180/1A
23°C	7.0	11	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ¹				
0.45 MPa, not annealed	215	--	°C	ISO 75-2/B
1.8 MPa, not annealed	200	--	°C	ISO 75-2/A
Melting Temperature (DSC)	222	--	°C	ISO 3146
CLTE - Flow (4.00 mm)	3.5E-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+13	ohms · cm	IEC 60093

Dielectric Constant (1 MHz)	3.70	6.10		IEC 60250
Dissipation Factor (1 MHz)	0.019	0.29		IEC 60250
Comparative Tracking Index	500	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	V-2	--		UL 94

Additional Information

干燥
Short-Term Heat Resistance, IEC 216, 20000 hrs: 190°C Long-Term Heat Resistance, IEC 216, 50% decrease of yield stress: 100°C

Injection	Dry	Unit	
Processing (Melt) Temp	260 - 280		°C
Mold Temperature	80.0 - 90.0		°C

NOTE

1. 110x10x4mm

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