

Badamid® B70 GK30 FR HF

Polyamide 6

Bada AG

Message:

Badamid® B70 GK30 FR HF is a polyamide 6 (nylon 6) material containing 30% glass beads. This product is available in Europe. Badamid® The main characteristics of B70 GK30 FR HF are: flame retardant/rated flame.

General Information				
Filler / Reinforcement		Glass beads, 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	5.3	--	%	ISO 62
Equilibrium, 23°C, 50% RH	1.7	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	5600	2700	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	95.0	65.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	5.0	6.0	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.0	8.0	kJ/m ²	ISO 179/1eA
23°C	6.0	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	35	45	kJ/m ²	ISO 179/1eU
23°C	45	55	kJ/m ²	ISO 179/1eU
Notched Izod Impact				ISO 180/1A
-30°C	5.0	8.0	kJ/m ²	ISO 180/1A
23°C	6.0	11	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ¹				
0.45 MPa, not annealed	180	--	°C	ISO 75-2/B
1.8 MPa, not annealed	95.0	--	°C	ISO 75-2/A
Melting Temperature (DSC)	222	--	°C	ISO 3146
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	6.20		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°CLong-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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