

Badamid® B70 M30

Polyamide 6

Bada AG

Message:

30% mineral filled standard injection moulding grade for technical articles with a high demand on dimensional stability

General Information				
Filler / Reinforcement		Mineral,30% Filler by Weight		
Features		Good Dimensional Stability		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	6.7	--	%	
Equilibrium, 23°C, 50% RH	2.1	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	5000	2000	MPa	ISO 527-2/1
Tensile Stress ¹ (Break, 23°C)	75.0	45.0	MPa	ISO 527-2/5
Tensile Strain ² (Break, 23°C)	12	40	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength ³				ISO 179/1eA
-30°C	7.0	12	kJ/m ²	
23°C	9.0	16	kJ/m ²	
Charpy Unnotched Impact Strength ⁴ (23°C)				ISO 179/1eU
No Break				
Notched Izod Impact Strength ⁵				ISO 180/1A
-30°C	6.0	9.0	kJ/m ²	
23°C	7.0	12	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ⁶				
0.45 MPa, Unannealed	195	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	115	--	°C	ISO 75-2/A
Melting Temperature (DSC) ⁷				
	222	--	°C	ISO 3146
CLTE ⁸				
ISO 11359-2				
Flow	6.5E-5	--	cm/cm/°C	
Transverse	6.0E-5	--	cm/cm/°C	

Maximum Service Temperature				IEC 216
20000 hrs	100	--	°C	
some hours	190	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity ⁹	1.0E+13	1.0E+10	ohms	IEC 60093
Volume Resistivity ¹⁰	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Relative Permittivity ¹¹	3.50	6.10		IEC 60250
Dissipation Factor ¹²	0.020	0.19		IEC 60250
Comparative Tracking Index	500	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm ¹³	HB	--		
1.60 mm ¹⁴	HB	--		
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Processing (Melt) Temp	240 to 260		°C	
Mold Temperature	60.0 to 80.0		°C	
NOTE				

1.	Test Specimen according to ISO 3167, Type A
2.	Test Specimen according to ISO 3167, Type A
3.	80x10x4 mm
4.	80x10x4 mm
5.	80x10x4 mm
6.	110x10x4 mm
7.	10 K/min, Compound for moulding
8.	> =10x10x4 mm
9.	80x80x1 mm
10.	80x80x1 mm
11.	80x80x1 mm
12.	80x80x1 mm
13.	125x13x0.8 mm
14.	125x13x1.6 mm

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