

Badamid® B70 GF/GK30

Polyamide 6

Bada AG

Message:

30% glass fibres and glass beads reinforced injection moulding grade for technical articles with high strength and dimensional stability

General Information				
Filler / Reinforcement		Glass Bead\Glass Fiber,30% Filler by Weight		
Features		Good Dimensional Stability		
		High Strength		
Forms		Pellets		
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)	6300	3800	MPa	ISO 527-2/1
Tensile Stress ¹ (Break, 23°C)	110	60.0	MPa	ISO 527-2/5
Tensile Strain ² (Break, 23°C)	3.5	6.5	%	ISO 527-2/5
Flexural Stress ³ (23°C)	170	120	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength ⁴				ISO 179/1eA
-30°C	6.0	8.0	kJ/m ²	
23°C	8.0	12	kJ/m ²	
Charpy Unnotched Impact Strength ⁵				ISO 179/1eU
-30°C	45	50	kJ/m ²	
23°C	55	65	kJ/m ²	
Notched Izod Impact Strength ⁶				ISO 180/1A
-30°C	6.0	8.0	kJ/m ²	
23°C	7.0	10	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ⁷				

0.45 MPa, Unannealed	210	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	190	--	°C	ISO 75-2/A
Melting Temperature (DSC) 8	222	--	°C	ISO 3146
CLTE - Flow ⁹ (4.00 mm)	3.8E-5	--	cm/cm/°C	DIN 53752
Maximum Service Temperature				IEC 216
20000 hrs	110	--		
some hours	190	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity ¹⁰	1.0E+13	1.0E+10	ohms	IEC 60093
Volume Resistivity ¹¹	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Relative Permittivity ¹² (1 MHz)	3.90	4.60		IEC 60250
Dissipation Factor				IEC 60250
1 MHz	--	0.070		
1 MHz ¹³	0.020	--		
Comparative Tracking Index	500	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm ¹⁴	HB	--		
1.60 mm ¹⁵	HB	--		
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Processing (Melt) Temp	260 to 280		°C	
Mold Temperature	80.0 to 90.0		°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.	80x10x4 mm			
7.	110x10x4mm			
8.	10 K/min, Compound for moulding			
9.	>=10x10x4 mm			
10.	80x80x1 mm			
11.	80x80x1 mm			
12.	80x80x1 mm			

13.	80x80x1 mm
14.	125x13x0.8 mm
15.	125x13x1.6 mm

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