

Badamid® A70 GF/GK30

Polyamide 66

Bada AG

Message:

Glass fibre/glass beads-reinforced injection moulding grade for technical articles with very good dimensional stability

General Information				
Filler / Reinforcement	Glass Bead\Glass Fiber,30% Filler by Weight			
Features	Good Dimensional Stability			
Uses	Engineering Parts			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.36	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	6.0	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	7100	5100	MPa	ISO 527-2/1
Tensile Stress ¹ (Break, 23°C)	145	105	MPa	ISO 527-2/5
Tensile Strain ² (Break, 23°C)	3.5	4.5	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength ³				ISO 179/1eA
-30°C	6.0	10	kJ/m ²	
23°C	7.0	12	kJ/m ²	
Charpy Unnotched Impact Strength ⁴				ISO 179/1eU
-30°C	35	40	kJ/m ²	
23°C	40	50	kJ/m ²	
Notched Izod Impact Strength ⁵				ISO 180/1A
-30°C	4.0	8.0	kJ/m ²	
23°C	6.0	10	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ⁶				
0.45 MPa, Unannealed	240	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	240	--	°C	ISO 75-2/A

Melting Temperature (DSC) 7	262	--	°C	ISO 3146
Maximum Service Temperature				IEC 216
20000 hrs	110	--	°C	
some hours	220	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity ⁸	1.0E+12	1.0E+10	ohms	IEC 60093
Volume Resistivity ⁹	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Relative Permittivity ¹⁰ (1 MHz)	3.50	5.50		IEC 60250
Dissipation Factor ¹¹ (1 MHz)	0.015	0.20		IEC 60250
Comparative Tracking Index	500	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm ¹²	HB	--		
1.60 mm ¹³	HB	--		
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Processing (Melt) Temp	285 to 305		°C	
Mold Temperature	80.0 to 100		°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. 110x10x4mm

7. 10 K/min, Compound for moulding

8. 80x80x1 mm

9. 80x80x1 mm

10. 80x80x1 mm

11. 80x80x1 mm

12. 125x13x0.8 mm

13. 125x13x1.6 mm

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