

Badamid® A70 GK30

Polyamide 66

Bada AG

Message:

Injection moulding grade with 30% of glass beads with good mechanical properties and high dimensional stability

General Information				
UL YellowCard	E189230-101163300			
Filler / Reinforcement	Glass Bead,30% Filler by Weight			
Features	Good Dimensional Stability			
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 ¹ (23°C)	4800	2650	MPa	ISO 527-2/1
Tensile Stress ² (Break, 23°C)	95.0	70.0	MPa	ISO 527-2/5
Tensile Strain ³ (Break, 23°C)	6.0	9.0	%	ISO 527-2/5
Flexural Stress ⁴ (23°C)	185	135	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength ⁵				ISO 179/1eA
-30°C	5.0	6.0	kJ/m ²	
23°C	6.0	8.0	kJ/m ²	
Notched Izod Impact Strength ⁶				ISO 180/1A
-30°C	4.0	7.0	kJ/m ²	
23°C	5.0	8.0	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	105	--	°C	ISO 75-2/A
Melting Temperature (DSC) ⁸	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 ⁹	1.0E+12	1.0E+10	ohms	IEC 60093
Volume Resistivity ¹⁰	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Relative Permittivity ¹¹ (1 MHz)	3.50	5.50		IEC 60250
Dissipation Factor ¹² (1 MHz)	0.026	0.20		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	280 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.	Test Specimen according to ISO 3167, Type A
4.	80x10x4 mm
5.	80x10x4 mm
6.	80x10x4 mm
7.	110x10x4mm
8.	10 K/min, Compound for moulding
9.	80x80x1 mm
10.	80x80x1 mm
11.	80x80x1 mm
12.	80x80x1 mm
13.	125x13x0.8 mm
14.	125x13x1.6 mm

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