

Badamid® LA70 GF50 HH

Polyamide 66

Bada AG

Message:

PA66-GF50

50% glass fibres reinforced injection moulding grade, heat stabilized, for technical products with high thermal resistance and high stiffness

General Information				
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Features		High Stiffness		
Uses		Engineering Parts		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.55	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	3.7 to 4.3	--	%	
Equilibrium, 23°C, 50% RH	1.0 to 1.4	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	16500	12500	MPa	ISO 527-2/1
Tensile Stress ¹ (Break, 23°C)	230	180	MPa	ISO 527-2/5
Tensile Strain ² (Break, 23°C)	2.5	3.5	%	ISO 527-2/5
Flexural Stress ³ (23°C)	360	300	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength ⁴				ISO 179/1eA
-30°C	13	--	kJ/m ²	
23°C	17	21	kJ/m ²	
Charpy Unnotched Impact Strength ⁵				ISO 179/1eU
-30°C	85	--	kJ/m ²	
23°C	95	100	kJ/m ²	
Notched Izod Impact Strength ⁶ (23°C)	13	15	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ⁷				
0.45 MPa, Unannealed	250	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	250	--	°C	ISO 75-2/A
Melting Temperature (DSC) ⁸	260	--	°C	ISO 3146

CLTE ⁹				DIN 53752
Flow	5.0E-6 to 2.0E-5	--	cm/cm/°C	
Transverse	5.0E-5 to 6.0E-5	--	cm/cm/°C	
Maximum Service Temperature				IEC 216
20000 hrs	140	--	°C	
some hours	240	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity ¹⁰	1.0E+12	1.0E+10	ohms	IEC 60093
Volume Resistivity ¹¹	1.0E+13	1.0E+10	ohms·cm	IEC 60093
Relative Permittivity ¹² (1 MHz)	3.80	6.60		IEC 60250
Dissipation Factor ¹³ (1 MHz)	0.015	0.17		IEC 60250
Comparative Tracking Index	550	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating ¹⁴ (1.60 mm)	HB	--		UL 94
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Processing (Melt) Temp	290 to 310		°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.	110x10x4 mm			
8.	10 K/min, Compound for moulding			
9.	>=10x10x4 mm			
10.	80x80x1 mm			
11.	80x80x1 mm			
12.	80x80x1 mm			
13.	80x80x1 mm			
14.	125x13x1.6 mm			

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