

Badamid® B70 GF50

Polyamide 6

Bada AG

Message:

50% glass fibres reinforced injection moulding grade for technical articles with high strength

General Information				
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Features		High Strength		
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	4.8	--	%	
Equilibrium, 23°C, 50% RH	1.5	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	15500	12100	MPa	ISO 527-2/1
Tensile Stress ¹ (Break, 23°C)	230	160	MPa	ISO 527-2/5
Tensile Strain ² (Break, 23°C)	3.0	5.0	%	ISO 527-2/5
Flexural Stress ³ (23°C)	315	280	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength ⁴				ISO 179/1eA
-30°C	21	25	kJ/m ²	
23°C	21	26	kJ/m ²	
Charpy Unnotched Impact Strength ⁵				ISO 179/1eU
-30°C	95	100	kJ/m ²	
23°C	100	110	kJ/m ²	
Notched Izod Impact Strength ⁶				ISO 180/1A
-30°C	18	21	kJ/m ²	
23°C	20	23	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ⁷				
0.45 MPa, Unannealed	220	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	215	--	°C	ISO 75-2/A
Melting Temperature (DSC) ⁸	222	--	°C	ISO 3146

CLTE ⁹				DIN 53752
Flow	1.4E-5	--	cm/cm/°C	
Transverse	5.6E-5	--	cm/cm/°C	
Maximum Service Temperature				IEC 216
20000 hrs	110	--	°C	
some hours	200	--	°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	4.20	6.10		IEC 60250
Dissipation Factor ¹³ (1 MHz)	0.014	0.14		IEC 60250
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.	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.	125x13x0.8 mm			
15.	125x13x1.6 mm			

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

