

Badamid® B70 GF30

Polyamide 6

Bada AG

Message:

Polyamide 6 injection moulding standard grade with 30% of glass fibre reinforcement.

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
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)	9350	6200	MPa	ISO 527-2/1
Tensile Stress ¹ (Break, 23°C)	175	110	MPa	ISO 527-2/5
Tensile Strain ² (Break, 23°C)	3.5	5.5	%	ISO 527-2/5
Flexural Stress ³ (23°C)	245	200	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength ⁴				ISO 179/1eA
-30°C	14	--	kJ/m ²	
23°C	15	24	kJ/m ²	
Charpy Unnotched Impact Strength ⁵				ISO 179/1eU
-30°C	80	--	kJ/m ²	
23°C	90	110	kJ/m ²	
Notched Izod Impact Strength ⁶				ISO 180/1A
-30°C	12	--	kJ/m ²	
23°C	15	20	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	210	--	°C	ISO 75-2/A
Melting Temperature (DSC) ⁸	222	--	°C	ISO 3146
CLTE				DIN 53752

Flow	2.0E-5	--	cm/cm/°C	
Transverse	6.2E-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 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	3.80	6.80		IEC 60250
Dissipation Factor (1 MHz)	0.023	0.22		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	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. 80x80x1 mm

10. 80x80x1 mm

11. 80x80x1 mm

12. 125x13x0.8 mm

13. 125x13x1.6 mm

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