

Badamid® B70 GF30 TM-Z3

Polyamide 6

Bada AG

Message:

Chemical super tough modified 30% glass fibres reinforced injection moulding grade for technical articles with high strength and toughness

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Features		High Strength		
		Ultra High Toughness		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.31	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	5.5	--	%	
Equilibrium, 23°C, 50% RH	1.7	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	8600	5100	MPa	ISO 527-2/1
Tensile Stress ¹ (Break, 23°C)	140	95.0	MPa	ISO 527-2/5
Tensile Strain ² (Break, 23°C)	3.5	10	%	ISO 527-2/5
Flexural Stress ³ (23°C)	210	120	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength ⁴ (23°C)	18	30	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
23°C	--	100	kJ/m ²	
23°C ⁵	85	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ⁶				
0.45 MPa, Unannealed	200	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	175	--	°C	ISO 75-2/A
Melting Temperature (DSC) ⁷	222	--	°C	ISO 3146
CLTE ⁸				DIN 53752
Flow : 4.00 mm	2.3E-5	--	cm/cm/°C	

Transverse : 4.00 mm	6.3E-5	--	cm/cm/°C	
Maximum Service Temperature				IEC 216
20000 hrs	90	--	°C	
some hours	180	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity ⁹	1.0E+13	1.0E+10	ohms	IEC 60093
Volume Resistivity ¹⁰	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Relative Permittivity ¹¹ (1 MHz)	3.70	4.60		IEC 60250
Dissipation Factor ¹² (1 MHz)	0.023	0.070		IEC 60250
Comparative Tracking Index ¹³	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. 110x10x4mm

7. 10 K/min, Compound for moulding

8. >=10x10x4 mm

9. 80x80x1 mm

10. 80x80x1 mm

11. 80x80x1 mm

12. 80x80x1 mm

13. 80x80x1 mm

14. 125x13x0.8 mm

15. 125x13x1.6 mm

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