

Badamid® B70 TM-Z3

Polyamide 6

Bada AG

Message:

Chemical modified standard injection moulding grade, super tough

General Information				
Features	Ultra High Toughness			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.06	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	8.1	--	%	
Equilibrium, 23°C, 50% RH	2.6	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	2100	1000	MPa	ISO 527-2/1
Tensile Stress ¹ (Yield, 23°C)	50.0	40.0	MPa	ISO 527-2/50
Tensile Strain ² (Yield, 23°C)	5.0	22	%	ISO 527-2/50
Nominal Tensile Strain at Break ³ (23°C)	> 50	> 50	%	ISO 527-2/50
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength ⁴ (23°C)	No Break	No Break		ISO 179/1eA
Charpy Unnotched Impact Strength ⁵				ISO 179/1eU
-30°C	No Break	No Break		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ⁶ (1.8 MPa, Unannealed)	65.0	--	°C	ISO 75-2/A
Melting Temperature (DSC) ⁷	222	--	°C	ISO 3146
CLTE - Flow ⁸ (4.00 mm)	8.4E-5	--	cm/cm/°C	DIN 53752
Maximum Service Temperature				IEC 216
20000 hrs	70	--	°C	
some hours	160	--	°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
Electric Strength ¹¹	100	65	kV/mm	IEC 60243-1
Relative Permittivity ¹² (1 MHz)	3.20	6.40		IEC 60250
Dissipation Factor ¹³ (1 MHz)	0.012	0.10		IEC 60250
Comparative Tracking Index	600	--	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	250 to 270		°C	
Mold Temperature	60.0 to 80.0		°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. 110x10x4mm

7. 10 K/min, Compounded 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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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

