

Badamid® A70 TM-Z3

Polyamide 66

Bada AG

Message:

PA6.6 injection moulding grade, super tough modified

General Information				
Features	Ultra High Toughness			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.07	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	6.5	--	%	
Equilibrium, 23°C, 50% RH	2.1	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	1900	950	MPa	ISO 527-2/1
Tensile Stress ¹ (Yield, 23°C)	45.0	40.0	MPa	ISO 527-2/50
Tensile Strain ² (Yield, 23°C)	5.7	22	%	ISO 527-2/50
Nominal Tensile Strain at Break ³ (23°C)	35	> 50	%	ISO 527-2/50
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength ⁴				
-30°C	20	--	kJ/m ²	ISO 179
23°C	90	140	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ⁵				ISO 179/1eU
-30°C	No Break	--		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ⁶				
0.45 MPa, Unannealed	130	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	60.0	--	°C	ISO 75-2/A
Melting Temperature (DSC) ⁷	262	--	°C	ISO 3146
Maximum Service Temperature				IEC 216
20000 hrs	60	--	°C	
some hours	140	--	°C	

Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity ⁸	1.0E+13	1.0E+11	ohms	IEC 60093
Volume Resistivity ⁹	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Relative Permittivity ¹⁰ (1 MHz)	3.20	3.80		IEC 60250
Dissipation Factor ¹¹ (1 MHz)	0.017	0.075		IEC 60250
Comparative Tracking Index ¹²	500	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating ¹³				UL 94
0.800 mm	HB	--		
1.60 mm	HB	--		
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Processing (Melt) Temp	280 to 300		°C	
Mold Temperature	40.0 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, Compound for moulding

8. 80x80x1 mm

9. 80x80x1 mm

10. 80x80x1 mm

11. 80x80x1 mm

12. 80x80x1 mm

13. 125x13x0.8 mm

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