

Badamid® B70 SM-Z2

Polyamide 6

Bada AG

Message:

PA6I

Chemical modified standard injection moulding grade, very good toughness at low temperatures

General Information				
Features		Low Temperature Toughness		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.10	--	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)	2400	1150	MPa	ISO 527-2/1
Tensile Stress ¹ (Yield, 23°C)	70.0	55.0	MPa	ISO 527-2/50
Tensile Strain ² (Yield, 23°C)	4.0	24	%	ISO 527-2/50
Nominal Tensile Strain at Break ³ (23°C)	25	> 50	%	ISO 527-2/50
Impact	Dry	Conditioned	Unit	Test Method
Charpy Unnotched Impact Strength ⁴				ISO 179/1eU
-30°C	No Break	No Break		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ⁵				
0.45 MPa, Unannealed	170	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	60.0	--	°C	ISO 75-2/A
Melting Temperature (DSC) ⁶	222	--	°C	ISO 3146
Maximum Service Temperature				IEC 216
20000 hrs	70	--	°C	
some hours	170	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity ⁷	1.0E+13	1.0E+10	ohms	IEC 60093
Volume Resistivity ⁸	1.0E+15	1.0E+12	ohms · cm	IEC 60093
Electric Strength				IEC 60243-1

--	--	60	kV/mm	
-- ⁹	100	--	kV/mm	
Relative Permittivity ¹⁰				IEC 60250
--	3.60	--		
1 MHz	--	6.90		
Dissipation Factor ¹¹				IEC 60250
--	--	0.30		
1 MHz	0.029	--		
Comparative Tracking Index				
	600	--	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	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. 110x10x4 mm
6. 10 K/min, Compound for moulding
7. 80x80x1 mm
8. 80x80x1 mm
9. 80x80x1 mm
10. 80x80x1 mm
11. 80x80x1 mm
12. 125x13x0.8 mm
13. 125x13x1.6 mm

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