

Badamid® A70 SM-Z3

Polyamide 66

Bada AG

Message:

Impact-modified injection moulding grade, for components and housing with high low-temperature impact resistance

General Information				
Features		Impact Modified		
		Low Temperature Impact Resistance		
Uses		Housings		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.09	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	6.8	--	%	
Equilibrium, 23°C, 50% RH	2.2	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	2100	1100	MPa	ISO 527-2/1
Tensile Stress ¹ (Yield, 23°C)	60.0	45.0	MPa	ISO 527-2/50
Tensile Strain ² (Yield, 23°C)	6.0	37	%	ISO 527-2/50
Nominal Tensile Strain at Break ³ (23°C)	38	> 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		
Notched Izod Impact Strength ⁶ (23°C)	No Break	No Break		ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ⁷				
0.45 MPa, Unannealed	180	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	65.0	--	°C	ISO 75-2/A
Melting Temperature (DSC) ⁸	262	--	°C	ISO 3146

Maximum Service Temperature				
20000 hrs	70	--	°C	
some hours	180	--	°C	IEC 216
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity ⁹	1.0E+13	1.0E+12	ohms	IEC 60093
Volume Resistivity ¹⁰	1.0E+14	1.0E+12	ohms·cm	IEC 60093
Relative Permittivity ¹¹ (1 MHz)	3.30	3.60		IEC 60250
Dissipation Factor ¹² (1 MHz)	0.024	0.060		IEC 60250
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm ¹³	HB	--		
1.60 mm ¹⁴	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.	80x10x4 mm			
7.	110x10x4mm			
8.	10 K/min, Compound for moulding			
9.	80x80x1 mm			
10.	80x80x1 mm			
11.	80x80x1 mm			
12.	80x80x1 mm			
13.	125x13x0.8 mm			
14.	125x13x1.6 mm			

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