

Badamid® B70 S

Polyamide 6

Bada AG

Message:

Easy flowing injection moulding grade highly nucleated for short cycles

General Information				
UL YellowCard		E189230-553966		
Additive		Nucleating Agent		
Features		Good Flow		
		Nucleated		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	9.5	--	%	
Equilibrium, 23°C, 50% RH	3.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3300	1200	MPa	ISO 527-2/1
Tensile Stress ¹ (Yield, 23°C)	90.0	45.0	MPa	ISO 527-2/50
Tensile Strain ² (Yield, 23°C)	4.0	20	%	ISO 527-2/50
Nominal Tensile Strain at Break ³ (23°C)	10	> 50	%	ISO 527-2/50
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength ⁴				ISO 179/1eA
-30°C	6.0	--	kJ/m ²	
23°C	8.0	--	kJ/m ²	
Charpy Unnotched Impact Strength ⁵ (23°C)	No Break	No Break		ISO 179/1eU
Notched Izod Impact Strength ⁶				ISO 180/1A
-30°C	6.0	--	kJ/m ²	
23°C	7.0	--	kJ/m ²	
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	222	--	°C	ISO 3146
CLTE - Flow ⁹ (4.00 mm)	8.5E-5	--	cm/cm/°C	DIN 53752
Maximum Service Temperature				IEC 216
20000 hrs	70	--	°C	
some hours	180	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity ¹⁰	1.0E+13	1.0E+10	ohms	IEC 60093
Volume Resistivity ¹¹	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Electric Strength ¹²	100	60	kV/mm	IEC 60243-1
Relative Permittivity ¹³ (1 MHz)	3.30	7.00		IEC 60250
Dissipation Factor ¹⁴ (1 MHz)	0.030	0.30		IEC 60250
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating ¹⁵ (1.60 mm)	V-2	--		UL 94
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Processing (Melt) Temp	240 to 260		°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. 80x10x4 mm
7. 110x10x4mm
8. 10 K/min, Compound for moulding
9. >=10x10x4
10. 80x80x1 mm
11. 80x80x1 mm
12. 80x80x1 mm
13. 80x80x1 mm
14. 80x80x1 mm
15. 125x13x1.6 mm

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