

Badamid® B70 L

Polyamide 6

Bada AG

Message:

Tough, easy flowing injection moulding grade for short cycle times with good mould release

General Information				
Features		Good Flow		
		Good Mold Release		
		Good Toughness		
Forms		Pellets		
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	8.8	--	%	
Equilibrium, 23°C, 50% RH	2.8	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	2800	1100	MPa	ISO 527-2/1
Tensile Stress ¹ (Yield, 23°C)	70.0	40.0	MPa	ISO 527-2/50
Tensile Strain ² (Yield, 23°C)	3.5	20	%	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				ISO 179/1eA
-30°C	14	--	kJ/m ²	
23°C	16 kJ/m ²	No Break		
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				ISO 180/1A
-30°C	8.0	--	kJ/m ²	
23°C	15 kJ/m ²	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ⁷				

0.45 MPa, Unannealed	170	--	°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)	8.4E-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 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	95	55	kV/mm	IEC 60243-1
Relative Permittivity ¹³ (1 MHz)	3.40	6.30		IEC 60250
Dissipation Factor ¹⁴ (1 MHz)	0.024	0.24		IEC 60250
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm ¹⁵	HB	--		
1.60 mm ¹⁶	HB	--		
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 mm			
10.	80x80x1 mm			
11.	80x80x1 mm			
12.	80x80x1 mm			

13.	80x80x1 mm
14.	80x80x1 mm
15.	125x13x0.8 mm
16.	125x13x1.6 mm

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