

Badamid® A70 L

Polyamide 66

Bada AG

Message:

Tough modified, easy-flowing and fast processing injection moulding grade

General Information				
Features	Low Flow			
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	8.0	--	%	
Equilibrium, 23°C, 50% RH	2.7	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus ¹ (23°C)	2800	1400	MPa	ISO 527-2/1
Tensile Stress ² (Yield, 23°C)	75.0	50.0	MPa	ISO 527-2/50
Tensile Strain ³ (Yield, 23°C)	5.0	25	%	ISO 527-2/50
Nominal Tensile Strain at Break ⁴ (23°C)	25	> 50	%	ISO 527-2/50
Flexural Stress ⁵ (23°C)	105	75.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength ⁶				ISO 179/1eA
-30°C	9.0	11	kJ/m ²	
23°C	12	23	kJ/m ²	
Charpy Unnotched Impact Strength ⁷				ISO 179/1eU
-30°C	No Break	No Break		
23°C	No Break	No Break		
Notched Izod Impact Strength ⁸				ISO 180/1A
-30°C	7.0	12	kJ/m ²	
23°C	11	21	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ⁹				
0.45 MPa, Unannealed	190	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	80.0	--	°C	ISO 75-2/A

Melting Temperature (DSC) 10	262	--	°C	ISO 3146
CLTE - Flow ¹¹ (4.00 mm)	8.5E-5	--	cm/cm/°C	DIN 53752
Maximum Service Temperature				IEC 216
20000	80.0	--		
some hours	180	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity				IEC 60093
-- ¹²	--	1.0E+10	ohms	
-- ¹³	1.0E+13	--	ohms	
Volume Resistivity				IEC 60093
-- ¹⁴	--	1.0E+12	ohms · cm	
-- ¹⁵	1.0E+15	--	ohms · cm	
Electric Strength				IEC 60243-1
-- ¹⁶	--	60	kV/mm	
-- ¹⁷	100	--	kV/mm	
Relative Permittivity				IEC 60250
1 MHz ¹⁸	--	5.40		
1 MHz ¹⁹	3.20	--		
Dissipation Factor				IEC 60250
1 MHz ²⁰	--	0.21		
1 MHz ²¹	0.024	--		
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm ²²	HB	--		
1.60 mm ²³	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	60.0 to 80.0		°C	
NOTE				
1.	Test Specimen accordng to ISO 3167, Type A			
2.	Test Specimen accordng to ISO 3167, Type A			
3.	Test Specimen accordng to ISO 3167, Type A			
4.	Test Specimen accordng to ISO 3167, Type A			
5.	80x10x4 mm			

6.	80x10x4 mm
7.	80x10x4 mm
8.	80x10x4 mm
9.	110x10x4mm
10.	10 K/min, Compound for moulding
11.	> = 10x10x4 mm
12.	80x80x1 mm
13.	80x80x1
14.	80x80x1 mm
15.	80x80x1
16.	80x80x1 mm
17.	80x80x1
18.	80x80x1 mm
19.	80x80x1
20.	80x80x1 mm
21.	80x80x1
22.	125x13x0.8 mm
23.	125x13x1.6 mm

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