

Badamid® B80

Polyamide 6

Bada AG

Message:

Suitable for extrusion and injection moulding with a well-balanced ratio of mechanical properties and processability

General Information				
Features	Good Processability			
Processing Method	Extrusion 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)	3000	1300	MPa	ISO 527-2/1
Tensile Stress ¹ (Yield, 23°C)	80.0	45.0	MPa	ISO 527-2/50
Tensile Strain ² (Yield, 23°C)	4.5	20	%	ISO 527-2/50
Nominal Tensile Strain at Break ³ (23°C)	30	> 50	%	ISO 527-2/50
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength ⁴				ISO 179/1eA
-30°C	9.0	--	kJ/m ²	
23°C	10	--	kJ/m ²	
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	9.0	--	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	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	3.50	7.00		IEC 60250
Dissipation Factor	0.030	0.30		IEC 60250
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm ¹⁴	V-2	--		
1.60 mm ¹⁵	V-2	--		
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 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.	80x10x4 mm			
5.	80x10x4 mm			
6.	80x10x4 mm			
7.	110x10x4 mm			
8.	10 K/min, Compound for moulding			
9.	>=10x10x4 mm			
10.	80x80x1 mm			
11.	80x80x1 mm			
12.	80x80x1 mm			
13.	80x80x1 mm			
14.	125x13x0.8 mm			
15.	125x13x1.6 mm			

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