

Badamid® A80

Polyamide 66

Bada AG

Message:

Medium viscosity grate for extrusion and injection moulding with a well-balanced mechanical-processability ratio

General Information				
Features	Medium Viscosity			
Uses	Engineering Parts			
Processing Method	Extrusion			
	Injection Molding			

Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	8.5	--	%	
Equilibrium, 23°C, 50% RH	2.8	--	%	

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus ¹ (23°C)	3150	1600	MPa	ISO 527-2/1
Tensile Stress ²				ISO 527-2/50
Yield, 23°C	86.0	60.0	MPa	
Break, 23°C	50.0	--	MPa	
Tensile Strain ³ (Yield, 23°C)	5.0	27	%	ISO 527-2/50
Flexural Stress ⁴ (23°C)	135	65.0	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength ⁵				ISO 179/1eA
-30°C	6.0	6.0	kJ/m ²	
23°C	7.0	20	kJ/m ²	
Charpy Unnotched Impact Strength ⁶				ISO 179/1eU
-30°C	No Break	No Break		
23°C	No Break	No Break		
Notched Izod Impact Strength ⁷				ISO 180/1A
-30°C	5.0	6.0	kJ/m ²	
23°C	6.0	18	kJ/m ²	

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ⁸				
0.45 MPa, Unannealed	210	--	°C	ISO 75-2/B

1.8 MPa, Unannealed	75.0	--	°C	ISO 75-2/A
Melting Temperature (DSC) 9	262	--	°C	ISO 3146
CLTE - Flow ¹⁰	8.5E-5	--	cm/cm/°C	DIN 53752
Maximum Service Temperature				IEC 216
20000 hrs	80	--	°C	
some hours	200	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity ¹¹	1.0E+13	1.0E+10	ohms	IEC 60093
Volume Resistivity ¹²	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Electric Strength ¹³	32	26	kV/mm	IEC 60243-1
Relative Permittivity ¹⁴	3.60	5.00		IEC 60250
Dissipation Factor ¹⁵	0.025	0.20		IEC 60250
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm ¹⁶	V-2	--		
1.60 mm ¹⁷	V-2	--		
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.	80x10x4 mm			
5.	80x10x4 mm			
6.	80x10x4 mm			
7.	80x10x4 mm			
8.	110x10x4 mm			
9.	10 K/min, Compound for moulding			
10.	>=10x10x4 mm			
11.	80x80x1 mm			
12.	80x80x1 mm			
13.	80x80x1 mm			
14.	80x80x1 mm			

15.	80x80x1 mm
16.	125x13x0.8 mm
17.	125x13x1.6 mm

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