

Badamid® A70 GF30 TM-Z3

Polyamide 66

Bada AG

Message:

Super impact modified glassfibres reinforced injection moulding grade for technical products with high toughness and stiffness

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Features		Good Toughness		
		High Stiffness		
		Impact Modified		
Uses		Engineering Parts		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.32	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	4.9	--	%	
Equilibrium, 23°C, 50% RH	1.6	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	8450	6200	MPa	ISO 527-2/1
Tensile Stress ¹ (Break, 23°C)	140	100	MPa	ISO 527-2/5
Tensile Strain ² (Break, 23°C)	3.5	5.5	%	ISO 527-2/5
Flexural Stress ³ (23°C)	185	155	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength ⁴				ISO 179/1eA
-30°C	14	17	kJ/m ²	
23°C	22	26	kJ/m ²	
Charpy Unnotched Impact Strength ⁵				ISO 179/1eU
-30°C	85	90	kJ/m ²	
23°C	100	110	kJ/m ²	
Notched Izod Impact Strength ⁶				ISO 180/1A
-30°C	16	14	kJ/m ²	
23°C	20	24	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature ⁷				
0.45 MPa, Unannealed	250	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	240	--	°C	ISO 75-2/A
Melting Temperature (DSC) ⁸				
	262	--	°C	ISO 3146
CLTE ⁹				
Flow : 4.00 mm	3.1E-5	--	cm/cm/°C	
Transverse : 4.00 mm	6.6E-5	--	cm/cm/°C	
Maximum Service Temperature				
				IEC 216
20000 hrs	105	--	°C	
some hours	195	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity				
				IEC 60093
-- ¹⁰	--	1.0E+10	ohms	
--	1.0E+12	--	ohms	
Volume Resistivity ¹¹	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Relative Permittivity ¹² (1 MHz)	3.50	5.50		IEC 60250
Dissipation Factor ¹³ (1 MHz)	0.014	0.16		IEC 60250
Comparative Tracking Index ¹⁴	500	--	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	285 to 305		°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.	80x10x4 mm			
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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