Badamid® A70 GF30

Polyamide 66

Bada AG

Message:

Polyamide 6.6 injection moulding standard grade with 30% of glass fibre reinforcement.

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Processing Method		Injection Molding		
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.36	--	g/cm³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	6.0	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus (23°C)	10000	7100	MPa	ISO 527-2/1
Tensile Stress [1] (Break, 23°C)	190	130	MPa	ISO 527-2/5
Tensile Strain [2] (Break, 23°C)	3.0	5.0	%	ISO 527-2/5
Flexural Stress [3] (23°C)	270	220	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength [4]				ISO 179/1eA
-30°C	14	--	kJ/m²	
23°C	14	17	kJ/m²	
Charpy Unnotched Impact Strength [5]				ISO 179/1eU
-30°C	70	--	kJ/m²	
23°C	85	95	kJ/m²	
Notched Izod Impact Strength [6]				ISO 180/1A
-30°C	12	--	kJ/m²	
23°C	13	16	kJ/m²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature [7]				
0.45 MPa, Unannealed	250	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	250	--	°C	ISO 75-2/A
Melting Temperature (DSC) [8]	262	--	°C	ISO 3146

Maximum Service Temperature				IEC 216
20000 hrs	110	--	°C	
some hours	230	--	°C	
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity [9]	1.0E+12	1.0E+10	ohms	IEC 60093
Volume Resistivity [10]	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Electric Strength [11]	35	--	kV/mm	IEC 60243-1
Relative Permittivity [12]	3.50	5.50		IEC 60250
Dissipation Factor	0.014	0.16		IEC 60250
Comparative Tracking Index	500	--	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Flame Rating				UL 94
0.800 mm [13]	HB	--		
1.60 mm [14]	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	80.0 to 110		°C	
NOTE				
1.	Test Specimen accordng to ISO 3167, Type A			
2.	Test Specimen accordng to ISO 3167, Type A			
3.	80x10x4 mm			
4.	80x10x4 mm			
5.	80x10x4 mm			
6.	80x10x4 mm			
7.	110x10x4 mm			
8.	10 K/min, Compound for moulding			
9.	80x80x1 mm			
10.	80x80x1 mm			
11.	80x80x1 mm			
12.	80x80x1 mm			
13.	125x13x0.8 mm			
14.	125x13x1.6 mm			

Recommended distributors for this material

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