Badamid® T70 GF50

Polyamide 6/6T Copolymer

Bada AG

Message:

50% glass fibres reinforced injection moulding grade with superior mechanical properties, high dimensional stability

General Information				
Filler / Reinforcement	Glass Fiber,50% Filler by Weight			
Features	Copolymer Good Dimensional Stability			
Uses	Engineering Parts			
Processing Method	Injection Molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.56	--	g/cm³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	3.0 to 4.0	--	%	
Equilibrium, 23°C, 50% RH	0.60 to 1.0	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus (23°C)	18000	17000	MPa	ISO 527-2/1
Tensile Stress [1] (Break, 23°C)	230	200	MPa	ISO 527-2/5
Tensile Strain [2] (Break, 23°C)	2.5	2.5	%	ISO 527-2/5
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength [3] (23°C)	15	15	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength [4] (23°C)	85	90	kJ/m²	ISO 179/1eU
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature [5]				
0.45 MPa, Unannealed	280	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	275	--	°C	ISO 75-2/A
Melting Temperature (DSC) [6]	295	--	°C	ISO 3146
Maximum Service Temperature				IEC 216
20000 hrs	145	--	°C	
some hours	270	--	°C	
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity [7]	1.0E+13	--	ohms	IEC 60093

Volume Resistivity [8]	1.0E+12	1.0E+12	ohms·cm	IEC 60093
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm [9]	HB	--		
1.60 mm [10]	HB	--		
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Processing (Melt) Temp	310 to 340		°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.	110x10x4 mm
6.	10 K/min, Compound for moulding
7.	80x80x1 mm
8.	80x80x1 mm
9.	125x13x0.8 mm
10.	125x13x1.6 mm

Recommended distributors for this material

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