

Badamid® T70 GF30

Polyamide 6/6T Copolymer

Bada AG

Message:

30% glass fibres reinforced injection moulding grade with superior mechanical properties

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Features		Copolymer		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.36	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	5.0	--	%	
Equilibrium, 23°C, 50% RH	1.5	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	8800	8500	MPa	ISO 527-2/1
Tensile Stress ¹ (Break, 23°C)	175	165	MPa	ISO 527-2/5
Tensile Strain ² (Break, 23°C)	3.0	3.0	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength ³ (23°C)	10	11	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ⁴ (23°C)	80	85	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ⁵				
0.45 MPa, Unannealed	270	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	260	--	°C	ISO 75-2/A
Melting Temperature (DSC) ⁶	295	--	°C	ISO 3146
Maximum Service Temperature				IEC 216
20000 hrs	135	--	°C	
some hours	250	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity ⁷	1.0E+13	1.0E+12	ohms · cm	IEC 60093
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method

Flame Rating			UL 94
0.800 mm ⁸	HB	--	
1.60 mm ⁹	HB	--	
Injection	Dry	Unit	
Drying Temperature	80.0		°C
Drying Time	2.0 to 4.0		hr
Processing (Melt) Temp	320 to 350		°C
Mold Temperature	70.0 to 100		°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.	110x10x4 mm
6.	10 K/min, Compound for moulding
7.	80x80x1 mm
8.	125x13x0.8 mm
9.	125x13x1.6 mm

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