

Badamid® T70 CF30

Polyamide 6/6T Copolymer

Bada AG

Message:

30% carbon fibre reinforced injection moulding grade with superior mechanical properties, high dimensional stability and electrical conductive

General Information				
Filler / Reinforcement		Carbon Fiber,30% Filler by Weight		
Features		Copolymer		
		Electrically Conductive		
		Good Dimensional Stability		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.26	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	4.3 to 5.3	--	%	
Equilibrium, 23°C, 50% RH	0.80 to 1.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	22000	21000	MPa	ISO 527-2/1
Tensile Stress ¹ (Yield, 23°C)	250	245	MPa	ISO 527-2/50
Tensile Strain ² (Yield, 23°C)	2.0	2.0	%	ISO 527-2/50
Flexural Stress ³ (23°C)	330	320	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength ⁴ (23°C)	10	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ⁵ (23°C)	100	100	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength ⁶ (23°C)	10	--	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ⁷				
0.45 MPa, Unannealed	270	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	270	--	°C	ISO 75-2/A
Melting Temperature (DSC) ⁸	295	--	°C	ISO 3146
Maximum Service Temperature				IEC 216
20000 hrs	135	--	°C	
some hours	260	--	°C	

Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity ⁹	< 1.0E+5	--	ohms	IEC 60093
Volume Resistivity ¹⁰	< 1.0E+5	< 1.0E+5	ohms·cm	IEC 60093
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 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. 80x10x4 mm

6. 80x10x4 mm

7. 110x10x4 mm

8. 10 K/min, Compound for moulding

9. 80x80x1 mm

10. 80x80x1 mm

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