

Badamid® A70 CF20 HHC

Polyamide 66

Bada AG

Message:

Heat stabilized Polyamide 6.6 injection moulding grade, 20% carbon fibres reinforcement for technical products with good electrical properties

General Information				
Filler / Reinforcement		Carbon Fiber,20% Filler by Weight		
Features		Good Electrical Properties		
Uses		Engineering Parts		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.22	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	6.8	--	%	
Equilibrium, 23°C, 50% RH	2.2	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus ¹ (23°C)	16500	11500	MPa	ISO 527-2/1
Tensile Stress ² (Break, 23°C)	225	155	MPa	ISO 527-2/5
Tensile Strain ³ (Break, 23°C)	2.5	5.5	%	ISO 527-2/5
Flexural Stress ⁴ (23°C)	315	245	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength ⁵				ISO 179/1eA
-30°C	8.0	--	kJ/m ²	
23°C	10	15	kJ/m ²	
Charpy Unnotched Impact Strength ⁶				ISO 179/1eU
-30°C	50	--	kJ/m ²	
23°C	60	75	kJ/m ²	
Notched Izod Impact Strength ⁷ (23°C)				ISO 180/1A
12		20	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ⁸				
0.45 MPa, Unannealed	245	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	240	--	°C	ISO 75-2/A
Melting Temperature (DSC) ⁹				
262		--	°C	ISO 3146

Maximum Service Temperature				IEC 216
20000 hrs	130	--	°C	
some hours	240	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity ¹⁰	1.0E+3	--	ohms	IEC 60093
Comparative Tracking Index	100	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm ¹¹	HB	--		
1.60 mm ¹²	HB	--		
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Processing (Melt) Temp	280 to 300		°C	
Mold Temperature	80.0 to 90.0		°C	
NOTE				

1.	Test Specimen according to ISO 3167, Type A
2.	Test Specimen according to ISO 3167, Type A
3.	Test Specimen according to ISO 3167, Type A
4.	80x10x4 mm
5.	80x10x4 mm
6.	80x10x4 mm
7.	80x10x4 mm
8.	110x10x4 mm
9.	10 K/min, Compound for moulding
10.	80x80x1 mm
11.	125x13x0.8 mm
12.	125x13x1.6 mm

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