

Badamid® T70 GF30 FR HF

Polyamide 6/6T Copolymer

Bada AG

Message:

PA6/6T-GF30 FR HF
30% glass fibres reinforced, halogen free flame retardent injection moulding grade with superior mechanical properties

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Features		Copolymer		
		Flame Retardant		
		Halogen Free		
Uses		Engineering Parts		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.42	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	3.5 to 4.5	--	%	
Equilibrium, 23°C, 50% RH	1.0 to 1.8	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	8500	8000	MPa	ISO 527-2/1
Tensile Stress ¹ (Break, 23°C)	95.0	90.0	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)	8.0	9.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ⁴ (23°C)	50	50	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ⁵				
0.45 MPa, Unannealed	250	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	240	--	°C	ISO 75-2/A
Melting Temperature (DSC) ⁶	295	--	°C	ISO 3146
Maximum Service Temperature				IEC 216
20000 hrs	145	--	°C	
some hours	240	--	°C	

Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity ⁷	1.0E+12	--	ohms	IEC 60093
Volume Resistivity ⁸	1.0E+12	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 ⁹	V-0	--		
1.60 mm ¹⁰	V-0	--		
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Processing (Melt) Temp	310 to 330		°C	
Mold Temperature	80.0 to 110		°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. 80x80x1 mm

9. 125x13x0.8 mm

10. 125x13x1.6 mm

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