

Badamid® B70 FR HF

Polyamide 6

Bada AG

Message:

Badamid® B70 FR HF is a polyamide 6 (nylon 6) material. This product is available in Europe. Badamid® The main characteristics of B70 FR HF are: flame retardant/rated flame.

General Information				
UL YellowCard		E189230-549443		
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.18	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturated, 23°C	8.1	--	%	ISO 62
Equilibrium, 23°C, 50% RH	2.5	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3700	1200	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	75.0	55.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	14	20	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	3.0	--	kJ/m ²	ISO 179/1eA
23°C	5.0	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)				ISO 179/1eU
No Break				
No Break				
Notched Izod Impact				ISO 180/1A
-30°C	3.0	--	kJ/m ²	ISO 180/1A
23°C	5.0	--	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ¹				
0.45 MPa, not annealed	190	--	°C	ISO 75-2/B
1.8 MPa, not annealed	80.0	--	°C	ISO 75-2/A
Melting Temperature (DSC)	222	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13	ohms · cm	IEC 60093
Dielectric Constant (1 MHz)	3.70	7.00		IEC 60250
Comparative Tracking Index				
500	--	V		IEC 60112

Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm	V-0	--		UL 94
1.60 mm	V-0	--		UL 94
Additional Information				
干燥 Short-Term Heat Resistance, IEC 216, 20000 hrs: 185°C Long-Term Heat Resistance, IEC 216, 50% decrease of yield stress: 85°C				
Injection	Dry	Unit		
Processing (Melt) Temp	240 - 260		°C	
Mold Temperature	60.0 - 80.0		°C	
NOTE				
1.	110x10x4mm			

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