

Badamid® B70 SM-Z3

Polyamide 6

Bada AG

Message:

Badamid® B70 SM-Z3 is a polyamide 6 (nylon 6) material. This product is available in Europe. Badamid® The main characteristics of B70 SM-Z3 are: flame retardant/rated flame.

General Information				
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.08	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturated, 23°C	7.6	--	%	ISO 62
Equilibrium, 23°C, 50% RH	2.4	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	2200	1100	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	65.0	50.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	4.5	35	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	35	50	%	ISO 527-2/50
Impact	Dry	Conditioned	Unit	Test Method
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		ISO 179/1eU
23°C	No Break	No Break		ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ¹				
0.45 MPa, not annealed	170	--	°C	ISO 75-2/B
1.8 MPa, not annealed	60.0	--	°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+12	ohms·cm	IEC 60093
Dielectric Strength	100	60	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.60	6.90		IEC 60250
Dissipation Factor (1 MHz)	0.029	0.30		IEC 60250
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94

0.800 mm	HB	--	UL 94
1.60 mm	HB	--	UL 94
Additional Information			
干燥 Short-Term Heat Resistance, IEC 216, 20000 hrs: 170°C Long-Term Heat Resistance, IEC 216, 50% decrease of yield stress: 70°C			
Injection	Dry	Unit	
Processing (Melt) Temp	250 - 270		°C
Mold Temperature	60.0 - 80.0		°C
NOTE			
1.	110x10x4mm		

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