

Badamid® UL A70 H

Polyamide 66

Bada AG

Message:

Badamid® UL A70 H is a polyamide 66 (nylon 66) material. This product is available in Europe. Badamid® The main characteristics of UL A70 H are: flame retardant/rated flame.

General Information				
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturated, 23°C	8.5	--	%	ISO 62
Equilibrium, 23°C, 50% RH	2.8	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3150	1600	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	83.0	60.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	4.5	21	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	15	50	%	ISO 527-2/50
Flexural Stress (23°C)	135	65.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	6.0	kJ/m ²	ISO 179/1eA
23°C	6.0	14	kJ/m ²	ISO 179/1eA
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
Notched Izod Impact				ISO 180/1A
-30°C	3.0	3.0	kJ/m ²	ISO 180/1A
23°C	5.0	11	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ¹				
0.45 MPa, not annealed	210	--	°C	ISO 75-2/B
1.8 MPa, not annealed	75.0	--	°C	ISO 75-2/A
Melting Temperature (DSC)	262	--	°C	ISO 3146
CLTE - Flow (4.00 mm)	8.5E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method

Surface Resistivity	1.0E+13	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Dielectric Strength	32	26	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.60	5.00		IEC 60250
Dissipation Factor (1 MHz)	0.025	0.20		IEC 60250
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm	V-2	--		UL 94
1.60 mm	V-2	--		UL 94
Additional Information				
干燥				
Short-Term Heat Resistance, IEC 216, 20000 hrs: 200°C Long-Term Heat Resistance, IEC 216, 50% decrease of yield stress: 90°C				
Injection	Dry	Unit		
Processing (Melt) Temp	280 - 300		°C	
Mold Temperature	60.0 - 80.0		°C	
NOTE				
1.	110x10x4mm			

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