

Badamid® UL B70

Polyamide 6

Bada AG

Message:

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

General Information				
UL YellowCard		E189230-227342		
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturated, 23°C	9.5	--	%	ISO 62
Equilibrium, 23°C, 50% RH	3.0	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3100	1300	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	85.0	45.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	4.5	20	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	15	50	%	ISO 527-2/50
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	7.0	8.0	kJ/m ²	ISO 179/1eA
23°C	8.0	60	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	5.0	--	kJ/m ²	ISO 180/1A
23°C	7.0 kJ/m ²	No Break		ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ¹				
0.45 MPa, not annealed	175	--	°C	ISO 75-2/B
1.8 MPa, not annealed	65.0	--	°C	ISO 75-2/A
Melting Temperature (DSC)	222	--	°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+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)	3.40	7.00		IEC 60250
Dissipation Factor (1 MHz)	0.023	0.30		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: 170°C Long-Term Heat Resistance, IEC 216, 50% decrease of yield stress: 70°C				
Injection	Dry	Unit		
Processing (Melt) Temp	240 - 260		°C	
Mold Temperature	60.0 - 80.0		°C	
NOTE				
1.	110x10x4mm			

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

