

Badamid® LB70 K

Polyamide 6

Bada AG

Message:

Badamid® LB70 K is a Polyamide 6 (Nylon 6) material. It is available in Europe. Primary attribute of Badamid® LB70 K: Flame Rated.

General Information				
UL YellowCard		E189230-227329		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	9.0 to 10	--	%	
Equilibrium, 23°C, 50% RH	2.6 to 3.4	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3100	1000	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	85.0	40.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	4.5	20	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	10	> 50	%	ISO 527-2/50
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	3.0	--	kJ/m ²	
23°C	5.0	55	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	200	--	kJ/m ²	
23°C	250 kJ/m ²	No Break		
Notched Izod Impact Strength (23°C)				ISO 180/1A
	5.0 kJ/m ²	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	180	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	65.0	--	°C	ISO 75-2/A
Melting Temperature (DSC) 1	220	--	°C	ISO 3146
CLTE - Flow	7.0E-5 to 1.0E-4	--	cm/cm/°C	DIN 53752
Maximum Service Temperature				IEC 60216
-- 2	100	--	°C	
--	180	--	°C	

Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+13	1.0E+10	ohms·cm	IEC 60093
Relative Permittivity (1 MHz)	3.50	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	HB	--		
1.60 mm	HB	--		
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Processing (Melt) Temp	250 to 270		°C	
Mold Temperature	40.0 to 80.0		°C	
NOTE				
1.	10 K/min			
2.	20000 H			

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