

Badamid® LB80 K

Polyamide 6

Bada AG

Message:

Badamid® LB80 K is a Polyamide 6 (Nylon 6) material. It is available in Europe. Primary attribute of Badamid® LB80 K: Flame Rated.

General Information				
Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	9.5	--	%	
Equilibrium, 23°C, 50% RH	3.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	2800	900	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	80.0	45.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	4.0	20	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	> 50	> 50	%	ISO 527-2/50
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	7.5	--	kJ/m ²	
23°C	8.0	8.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	--		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	160	--	°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	8.5E-5	--	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+12	ohms·cm	IEC 60093
Electric Strength	100	60	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.50	7.00		IEC 60250
Dissipation Factor (1 MHz)	0.031	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	260 to 280		°C	
Mold Temperature	70.0 to 90.0		°C	
NOTE				
1.	10 K/min			
2.	20000 H			

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