

# Badamid® LB70 M30

Polyamide 6

Bada AG

## Message:

Badamid® LB70 M30 is a Polyamide 6 (Nylon 6) material filled with 30% mineral. It is available in Europe. Primary attribute of Badamid® LB70 M30: Flame Rated.

General Information				
UL YellowCard	E189230-227331			
Filler / Reinforcement	Mineral,30% Filler by Weight			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.36	--	g/cm <sup>3</sup>	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	5.9 to 6.5	--	%	
Equilibrium, 23°C, 50% RH	2.2 to 2.6	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	4600	1700	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	75.0	45.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	12	45	%	ISO 527-2/5
Flexural Stress (23°C)	125	50.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.0	--	kJ/m <sup>2</sup>	
23°C	9.0	18	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	100	--	kJ/m <sup>2</sup>	
23°C	190	--	kJ/m <sup>2</sup>	
Notched Izod Impact Strength (23°C)	6.5	15	kJ/m <sup>2</sup>	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	195	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	70.0	--	°C	ISO 75-2/A
Melting Temperature (DSC) 1	220	--	°C	ISO 3146
CLTE				DIN 53752
Flow	5.0E-5 to 8.0E-5	--	cm/cm/°C	
Transverse	5.0E-5 to 7.0E-5	--	cm/cm/°C	

Maximum Service Temperature				IEC 60216
-- <sup>2</sup>	100	--	°C	
--	180	--	°C	
<b>Electrical</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
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	6.20		IEC 60250
Dissipation Factor (1 MHz)	0.020	0.20		IEC 60250
Comparative Tracking Index	450	--	V	IEC 60112
<b>Flammability</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating				UL 94
0.800 mm	HB	--		
1.60 mm	HB	--		
<b>Injection</b>	<b>Dry</b>	<b>Unit</b>		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Processing (Melt) Temp	270 to 290		°C	
Mold Temperature	80.0 to 90.0		°C	
<b>NOTE</b>				
1.	10 K/min			
2.	20000 H			

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