

Badamid® LC70 M40

Polyamide 6 + PA 66/6

Bada AG

Message:

Badamid® LC70 M40 is a Polyamide 6 + PA 66/6 (Nylon 6+Nylon 66/6) material filled with 40% mineral. It is available in Europe. Primary attribute of Badamid® LC70 M40: Flame Rated.

General Information				
Filler / Reinforcement		Mineral,40% Filler by Weight		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.48	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	4.5	--	%	
Equilibrium, 23°C, 50% RH	1.4	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	6000	4000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	90.0	60.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	5.0	15	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	--	kJ/m ²	
23°C	6.0	12	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	80	--	kJ/m ²	
23°C	95	170	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	220	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	90.0	--	°C	ISO 75-2/A
Melting Temperature (DSC) 1	243	--	°C	ISO 3146
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
Electric Strength	90	60	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	4.00	4.70		IEC 60250
Dissipation Factor (1 MHz)	0.016	0.16		IEC 60250

Comparative Tracking Index	500	--	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	270 to 290		°C	
Mold Temperature	80.0 to 90.0		°C	
NOTE				
1.	10 K/min			

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