

Badamid® LB70 GF40 TM-Z3

Polyamide 6

Bada AG

Message:

Badamid® LB70 GF40 TM-Z3 is a Polyamide 6 (Nylon 6) material filled with 40% glass fiber. It is available in Europe. Primary attribute of Badamid® LB70 GF40 TM-Z3: Flame Rated.

General Information				
UL YellowCard		E189230-227336		
Filler / Reinforcement		Glass Fiber,40% Filler by Weight		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.40	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	5.0 to 6.0	--	%	
Equilibrium, 23°C, 50% RH	1.5 to 2.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	11500	6500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	165	110	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	4.0	10	%	ISO 527-2/5
Flexural Stress (23°C)	245	130	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	15	--	kJ/m ²	
23°C	20	35	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	95	--	kJ/m ²	
23°C	100	110	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	205	--	°C	ISO 75-2/A
Melting Temperature (DSC) 1	222	--	°C	ISO 3146
CLTE				DIN 53752
Flow	2.0E-5 to 2.5E-5	--	cm/cm/°C	
Transverse	6.0E-5 to 7.0E-5	--	cm/cm/°C	
Maximum Service Temperature	180	--	°C	IEC 60216

Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+13	1.0E+10	ohms·cm	IEC 60093
Relative Permittivity (1 MHz)	3.80	6.00		IEC 60250
Dissipation Factor (1 MHz)	0.020	0.15		IEC 60250
Comparative Tracking Index	550	--	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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