

Badamid® LB70 GF15 TM-Z3

Polyamide 6

Bada AG

Message:

Badamid® LB70 GF15 TM-Z3 is a Polyamide 6 (Nylon 6) material filled with 15% glass fiber. It is available in Europe. Primary attribute of Badamid® LB70 GF15 TM-Z3: Flame Rated.

General Information				
UL YellowCard		E189230-227334		
Filler / Reinforcement		Glass Fiber, 15% Filler by Weight		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.22	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	7.5	--	%	
Equilibrium, 23°C, 50% RH	2.4	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	5500	2900	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	110	60.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	4.0	18	%	ISO 527-2/5
Flexural Stress (23°C)	150	80.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	7.0	--	kJ/m ²	
23°C	16	30	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	55	--	kJ/m ²	
23°C	75	100	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-30°C	5.0	--	kJ/m ²	
23°C	15	29	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	200	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	180	--	°C	ISO 75-2/A
Melting Temperature (DSC) 1	220	--	°C	ISO 3146
CLTE				DIN 53752

Flow	3.3E-5	--	cm/cm/°C	
Transverse	7.5E-5	--	cm/cm/°C	
Maximum Service Temperature	180	--	°C	IEC 60216
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)	3.70	6.20		IEC 60250
Dissipation Factor (1 MHz)	0.025	0.20		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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