

Badamid® LA70 GF15 HH

Polyamide 66

Bada AG

Message:

Badamid® LA70 GF15 HH is a Polyamide 66 (Nylon 66) material filled with 15% glass fiber. It is available in Europe. Primary attribute of Badamid® LA70 GF15 HH: Flame Rated.

General Information				
UL YellowCard		E189230-580741		
Filler / Reinforcement		Glass Fiber, 15% Filler by Weight		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.23	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	6.7 to 7.3	--	%	
Equilibrium, 23°C, 50% RH	1.9 to 2.5	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	6000	4500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	130	85.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.0	10	%	ISO 527-2/5
Flexural Stress (23°C)	180	125	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	8.0	11	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	43	--	kJ/m ²	
23°C	45	70	kJ/m ²	
Notched Izod Impact Strength (23°C)				ISO 180/1A
	5.5	6.5	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	250	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	250	--	°C	ISO 75-2/A
Melting Temperature (DSC)				
1	260	--	°C	ISO 3146
CLTE				DIN 53752
Flow	3.0E-5 to 3.5E-5	--	cm/cm/°C	
Transverse	7.0E-5 to 8.0E-5	--	cm/cm/°C	

Maximum Service Temperature	240	--	°C	
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)	3.50	5.50		IEC 60250
Dissipation Factor (1 MHz)	0.014	0.16		IEC 60250
Comparative Tracking Index	550	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	HB	--		UL 94
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Processing (Melt) Temp	280 to 300		°C	
Mold Temperature	80.0 to 90.0		°C	
NOTE				
1.	10 K/min			

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