

Badamid® LA70 H

Polyamide 66

Bada AG

Message:

Badamid® LA70 H is a Polyamide 66 (Nylon 66) material. It is available in Europe.

General Information				
UL YellowCard		E189230-227350		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	9.0	--	%	
Equilibrium, 23°C, 50% RH	3.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3000	1100	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	85.0	50.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	4.0	20	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	25	> 50	%	ISO 527-2/50
Flexural Stress (23°C)	2900	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.0	--	kJ/m ²	
23°C	6.0	20	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)				ISO 179/1eU
No Break				
No Break				
Notched Izod Impact Strength				ISO 180/1A
-30°C	6.0	--	kJ/m ²	
23°C	5.5 kJ/m ²	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	220	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	75.0	--	°C	ISO 75-2/A
Melting Temperature (DSC)				
1	260	--	°C	ISO 3146
CLTE - Flow	7.0E-5 to 1.0E-4	--	cm/cm/°C	DIN 53752
Maximum Service Temperature				IEC 60216
-- 2	121	--	°C	

--	200	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+9	ohms	IEC 60093
Volume Resistivity	1.0E+13	1.0E+9	ohms·cm	IEC 60093
Relative Permittivity (1 MHz)	3.20	5.00		IEC 60250
Dissipation Factor (1 MHz)	0.025	0.20		IEC 60250
Comparative Tracking Index	500	--	V	IEC 60112
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Processing (Melt) Temp	260 to 280		°C	
Mold Temperature	40.0 to 80.0		°C	
NOTE				
1.	10 K/min			
2.	20000 H			

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