

Badamid® LA70 K

Polyamide 66

Bada AG

Message:

UL listed, easy flowing injection moulding grade with short cycle times for technical products with isolating properties

General Information				
UL YellowCard		E189230-227348	E189230-102023228	
Features		Fast Molding Cycle		
		Good Flow		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	8.0 to 9.0	--	%	
Equilibrium, 23°C, 50% RH	2.5 to 3.1	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus ¹ (23°C)	3000	1100	MPa	ISO 527-2/1
Tensile Stress ² (Yield, 23°C)	85.0	50.0	MPa	ISO 527-2/50
Tensile Strain ³ (Yield, 23°C)	5.0	20	%	ISO 527-2/50
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	--	kJ/m ²	
23°C	5.0	25	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	--		
23°C	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
Melting Temperature (DSC)				
⁴	260	--	°C	ISO 3146
CLTE				DIN 53752

Flow	7.0E-5 to 1.0E-4	--	cm/cm/°C	
Transverse	7.0E-5 to 1.0E-4	--	cm/cm/°C	
Maximum Service Temperature				IEC 60216
-- ⁵	118	--	°C	
--	> 200	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+13	1.0E+10	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	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm	V-2	--		
1.60 mm	V-2	--		
Glow Wire Flammability Index (1.60 mm)	960	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.60 mm)	775	--	°C	IEC 60695-2-13
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	40.0 to 80.0		°C	
NOTE				
1.	Test Specimen according to ISO 3167, Type A			
2.	Test Specimen according to ISO 3167, Type A			
3.	Test Specimen according to ISO 3167, Type A			
4.	10 K/min			
5.	20000 hr			

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