

Badamid® LC70 FR HF

Polyamide 6 + PA 66/6

Bada AG

Message:

Halogen and phosphorus free flame retardant injection molding type i.e. for electrical components

General Information				
UL YellowCard	E189230-227344			
Additive	Flame Retardant			
Features	Flame Retardant			
	Halogen Free			
	Low (to None) Phosphorus Content			
Uses	Electrical/Electronic Applications			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.16	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	8.0 to 9.0	--	%	
Equilibrium, 23°C, 50% RH	2.6 to 3.2	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus ¹ (23°C)	3700	1500	MPa	ISO 527-2/1
Tensile Stress ²				
Yield, 23°C	85.0	45.0	MPa	ISO 527-2/50
Break, 23°C	85.0	45.0	MPa	ISO 527-2/5
Tensile Strain ³				
Yield, 23°C	5.0	18	%	ISO 527-2/50
Break, 23°C	5.0	18	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	--	kJ/m ²	
23°C	9.0	35	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	100 kJ/m ²	No Break		ISO 179/1eU
Notched Izod Impact Strength (23°C)	4.5	11	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	210	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	70.0	--	°C	ISO 75-2/A

Melting Temperature (DSC) 4	243	--	°C	ISO 3146
CLTE				DIN 53752
Flow	6.0E-5 to 1.0E-4	--	cm/cm/°C	
Transverse	6.0E-5 to 1.2E-4	--	cm/cm/°C	
Maximum Service Temperature				IEC 60216
-- 5	107	--	°C	
--	200	--	°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+9	ohms·cm	IEC 60093
Relative Permittivity (1 MHz)	3.60	6.00		IEC 60250
Dissipation Factor (1 MHz)	0.020	0.30		IEC 60250
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.750 mm	V-0	--		
1.50 mm	V-0	--		
Glow Wire Flammability Index (0.750 mm)	850	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (0.750 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	250 to 270		°C	
Mold Temperature	60.0 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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

