

LOCTITE ABLESTIK 84-1LMINB1

August 2019

PRODUCT DESCRIPTION

LOCTITE ABLESTIK 84-1LMINB1 provides the following product characteristics:

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Technology	Ероху	
Appearance	Silver	
Cure	Heat cure	
Product Benefits	Electrically conductive	
	 Long work life 	
	 Bonds difficult to wet surfaces 	
Application	Die attach	
Filler Type	Silver	
Typical Package Application	Capacitor terminations	
Аррисацоп		

LOCTITE ABLESTIK 84-1LMINB1 die attach adhesive is formulated to bond difficult-to-wet surfaces such as palladium-silver capacitors terminations. This adhesive reduces capacitor shorting problems caused by resin bleed.

MIL-STD-883

LOCTITE ABLESTIK 84-1LMINB1 meets the requirements of MIL-STD-883, Method 5011.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity, Brookfield CP51, 25 °C, mPa·s (cP)	:
Speed 5 rpm	50,000
Work Life @ 25°C, hours	>24
Shelf Life (from date of manufacture):	
@ 5°C, months	3
@ -10°C, months	6
@ -40°C, year	1

TYPICAL CURING PERFORMANCE Cure Schedule

1 hour @ 150°C

The above cure profiles are guideline recommendations. Cure conditions (time and temperature) may vary based on customers' experience and their application requirements, as well as customer curing equipment, oven loading and actual oven temperatures.

TYPICAL PROPERTIES OF CURED MATERIAL

Physical Properties

Coefficient of Thermal Expansion, :		
Below Tg, ppm/°C	50	
Above Tg, ppm/°C	130	
Glass Transition Temperature (Tg) by TMA, °C	90	
Thermal Conductivity, W/(m-K)	3.9	

Extractable Ionic Content, :	
Chloride (CI-)	≤20
Sodium (Na+)	≤20
Potassium (K+)	≤10
Water Extract Conductivity, µmhos/cm	9.7
Weight Loss @ 300°C, %	0.2

Electrical Properties

Volume Resistivity, ohms-cm 0.0003

TYPICAL PERFORMANCE OF CURED MATERIAL

Die Shear Strength vs Temperature, kg-f:

2 X 2 mm, psi

Substrate	@25°C	@250°C
IC	6200	1200

TYPICAL ENVIRONMENTAL RESISTANCE

Outgassing Properties

Outgassing , NASA Outgassing:

TML, % 0.14

CVCM, % 0.02

WVR, % 0.07

GENERAL INFORMATION

For safe handling information on this product, consult the Safety Data Sheet, (SDS).

STORAGE:

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

Optimal Storage: -40 °C. Storage below minus (-)40 °C or greater than minus (-)40 °C can adversely affect product properties.

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Technical Service Center or Customer Service Representative.



Conversions

(°C x 1.8) + 32 = °F kV/mm x 25.4 = V/mil mm / 25.4 = inches N x 0.225 = lb/F N/mm x 5.71 = lb/in psi x 145 = N/mm² MPa = N/mm² N·m x 8.851 = lb·in N·m x 0.738 = lb·ft N·mm x 0.142 = oz·in mPa·s = cP

Disclaimer

Note:

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Reference 0.4