

LOCTITE ABLESTIK A164-1

September 2013

PRODUCT DESCRIPTION

LOCTITE ABLESTIK A164-1 provides the following product characteristics:

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Technology	Ероху	
Appearance	Tan	
Cure	Heat cure	
Product Benefits	Non-conductive	
	Good adhesion	
	Good peel strength	
	 Excellent thermal shock resistance 	
	One component	
Application	Automotive Electronics	
Substrates	Metals, Glass and Plastics	

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity @ 25 °C, mPa·s (cP)	20,000
Shelf Life:	
@ 0 to 8°C, days	121
@ 18 to 25°C, days	91
Density, ASTM-D-792, g/cc	1.1
Flash Point - See MSDS	

TYPICAL CURING PERFORMANCE

Cure Schedule

60 minutes @ 120°C 40 minutes @ 140°C 20 minutes @ 160°C

Cure at any one of the recommended cure schedules.

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 TMA:	
Below Tg, cm/cm/°C	93
Above Tg, cm/cm/°C	190
Glass Transition Temperature, °C	60
Service Temperature, °C	-40 to +125
Hardness, Shore D ASTM-D-2240, min, @ 25°C	80
Water Absorption, %:	
@ 23°C, 24 hours	0.16
IEEE Thermal Resistant	Class E

TYPICAL PERFORMANCE OF CURED MATERIAL

Tensile Lap Shear Strength , ASTM-D-2240:

Aluminum, Kg/cm² (IMPa)		
Substrate	@25°C	
Aluminum	200 (19.5)	

GENERAL INFORMATION

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

THAWING:

- 1. Allow container to reach room temperature before use.
- After removing from the freezer, set the syringes to stand vertically while thawing.
- DO NOT open the container before contents reach 25°C temperature. Any moisture that collects on the thawed container should be removed prior to opening the container.
- DO NOT re-freeze. Once thawed to -40°C, the adhesive should not be re-frozen.

Not for product specifications

The technical data contained herein are intended as reference only. Please contact your local quality department for assistance and recommendations on specifications for this product.

Conversions

 $({}^{\circ}C \times 1.8) + 32 = {}^{\circ}F \\ kV/mm \times 25.4 = V/mil \\ mm / 25.4 = inches \\ N \times 0.225 = lb \\ N/mm \times 5.71 = lb/in \\ N/mm^2 \times 145 = psi \\ MPa = N/mm^2 \\ MPa \times 145 = psi \\ N·m \times 8.851 = lb·in \\ N·m \times 0.738 = lb·ft \\ N·mm \times 0.142 = oz·in \\ mPa·s = cP$



Disclaimer

Note:

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Reference 0.3