

LOCTITE ABLESTIK ABP 8064T

June 2020

2.0×10⁻⁵

PRODUCT DESCRIPTION

LOCTITE ABLESTIK ABP 8064T provides the following product characteristics:

Technology	Hybrid chemistry	
Appearance	Silver	
Product Benefits	 High thermal conductivity High electrical conductivity Medium modulus Low outgassing Stable at high temperatures Good reliability performance Soft solder replacement Use for wide range of package sizes 	
Cure	Heat cure	
Application	Die attach	
Typical Package Application(s)	QFP, High power devices	

LOCTITE ABLESTIK ABP 8064T highly filled, conductive die attach adhesive is designed to provide high thermal and electrical conductivity in the attachment of integrated circuits and components onto metal leadframes.

LOCTITE ABLESTIK ABP 8064T passes NASA outgassing standards.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Filler Content %	85
Thixotropic Index (0.5/5 rpm)	5.8
Viscosity, Brookfield CP51, 25 °C, mPa·s (cP):	
Speed 5 rpm	12,000
Work Life @ 25°C, hours	24
Shelf Life @ -40°C (from date of manufacture), days	365

TYPICAL CURING PERFORMANCE

Recommended Cure Schedule

60 min ramp from 25°C to 180°C, hold 60 mins @ 180°C in N2 oven

Alternative Cure Schedule

60 min ramp from 25°C to 140°C, hold 60 mins @ 140°C in N2 oven

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

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Coefficient of Thermal Expansion, TMA:					
Alpha 1, ppm/°C		47			
Alpha 2, ppm/°C		136			
Glass Transition Temperature (Tg) by TMA, °C		44.5			
Tensile Modulus, DMTA:					
Q = 0	I/mm² osi)	5,260 (762,900)			
	l/mm² osi)	1,280 (185,505)			
Extractable Ionic Content @ 100°C, :					
Chloride (CI-)		<10			
Sodium (Na+)		<10			
Potassium (K+)		<10			
Thermal Conductivity, W/m-°C		22			
Electrical Properties					

TYPICAL PERFORMANCE OF CURED MATERIAL

Die Shear Strength:

Volume Resistivity, , ohm-cm

Die Griedi Grierigari.			
	3 X 3 mm (120 x 120 mil) Si die on PPF LF, Kg:		
	@ 25°C	12.18	
	@ 260°C	5.6	
	5 X 5 mm (200 x 200 mil) Si die on PPF LF, Kg:		
	@ 260°C	12.19	
	8 X 8 mm (300 x 300 mil) Si die on PPF LF, Kg:		
	@ 260°C	18.54	

TYPICAL ENVIRONMENTAL RESISTANCE

Outgassing Properties

Outgassing :	
TML, %	0.25
CVCM, %	0.05
WVR, %	0.02

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



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:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product. Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

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Reference 0.3