

LOCTITE ABLESTIK ABP 2288A

November 2013

PRODUCT DESCRIPTION

LOCTITE ABLESTIK ABP 2288A provides the following product characteristics:

Technology	Proprietary Hybrid Chemistry		
Appearance	Silver		
Cure	Heat cure		
Product Benefits	Low stress		
	 Use for wide range of package sizes 		
Application	Die attach		

LOCTITE ABLESTIK ABP 2288A die attach adhesive is designed for use in leadframe applications.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Thixotropic Index (0.5/5 rpm)	4.4	
Viscosity, Brookfield CP51, 25 °C, mPa·s (cP):		
Speed 5 rpm	8,500	
Work Life @ 25°C, hours	24	
Shelf Life @ -40°C (from date of manufacture), days	365	

TYPICAL CURING PERFORMANCE

Cure Schedule

30 minute ramp to 175°C, hold 60 minutes in N2

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		80	
Above Tg, ppm/°C		170	
Glass Transition Temperature, TMA, °C		13	
Thermal Conductivity, W/(m-K)		0.6	
Dynamic Tensile Modulus, DMA:			
@ -65 °C	N/mm² (psi)	4,500 (652,670)	
@ 25 °C	N/mm² (psi)	1,000 (145,040)	
@ 150 °C	N/mm² (psi)		
@ 250 °C	N/mm² (psi)		
Extractable Ionic Content, ppm:			
Chloride (CI-)		<10	
Sodium (Na+)		<10	
Potassium (K+)		<10	

TYPICAL PERFORMANCE OF CURED MATERIAL

Miscellaneous, Die Shear Strength:

2 X 2 mm Si die on Cu LF, kg-f:	
@ 25°C	7
@ 260 °C	2.5
2 x 2 mm Si die on Ag LF, kg-f:	
@ 25°C	9
@ 260 °C	2.8

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.
- 2. 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.

DIRECTIONS FOR USE

- Thawed adhesive should immediately be placed on dispense equipment for use.
- If the adhesive is transferred to a final dispensing reservoir, care must be exercised to avoid entrapment of contaminants and/or air into the adhesive.
- 3. Adhesive must be completely used within the products recommended work life.

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.

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 N/mm x 5.71 = lb/in N/mm² x 145 = psi MPa = N/mm² MPa x 145 = psi N·m x 8.851 = lb·in N·m x 0.738 = lb·ft N·mm x 0.142 = oz·in mPa·s = cP

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