

# LOCTITE ABLESTIK 2129 BIPAX

December 2016

## PRODUCT DESCRIPTION

LOCTITE ABLESTIK 2129 BIPAX provides the following product characteristics:

|                                                |                                                                                                                                                    |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Technology</b>                              | Epoxy                                                                                                                                              |
| <b>Appearance</b>                              | Clear, transparent                                                                                                                                 |
| <b>Cure</b>                                    | Room Temperature or Heat Cure                                                                                                                      |
| <b>Product Benefits</b>                        | <ul style="list-style-type: none"> <li>• Low viscosity</li> <li>• Ease of use</li> <li>• Strong bond strength</li> <li>• Good insulator</li> </ul> |
| <b>Application</b>                             | Non-conductive adhesive                                                                                                                            |
| <b>Operating Temperature</b>                   | -60 to 140°C                                                                                                                                       |
| <b>Mix Ratio, by weight - Resin : Hardener</b> | 100 : 25                                                                                                                                           |
| <b>Surfaces</b>                                | Metals, Ceramics, Glass, Glass fabrics, Wood and Most rigid plastics                                                                               |

LOCTITE ABLESTIK 2129 BIPAX is recommended for industrial and electronic production, repair, small casting, coating, tooling, and rigid laminating applications.

Fully cured, LOCTITE ABLESTIK 2129 BIPAX provides excellent resistance to petroleum solvents, salt solutions, mild acid and alkalis

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## TYPICAL PROPERTIES OF UNCURED MATERIAL

### Mixed Properties:

|                                     |       |
|-------------------------------------|-------|
| Mixed Viscosity @ 25 °C, mPa·s (cP) | 1,900 |
| Thixotropic Index                   | 1.0   |
| Specific Gravity                    | 1.19  |
| Pot life, minutes                   | 30    |
| Flash Point - See SDS               |       |

## TYPICAL CURING PERFORMANCE

### Cure Schedule

24 hours @ 25°C or  
4 hours @ 65°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

|                                                 |      |
|-------------------------------------------------|------|
| Hardness, Shore D                               | 88   |
| Glass Transition Temperature (Tg), °C           | 95.0 |
| Coefficient of Linear Thermal Expansion, ppm/°C | 58   |
| Izod Impact Strength, ft-lb/in. of notch        | 0.48 |
| Reactive solids contents, %                     | 100  |

### Electrical Properties

|                                                             |                      |
|-------------------------------------------------------------|----------------------|
| Dielectric Strength, volts/mil                              | 410                  |
| Dielectric Constant / Dissipation Factor @ 25°C:<br>@ 1 KHz | 4.0/0.02             |
| Volume Resistivity :<br>@ 25 °C                             | 5.9×10 <sup>13</sup> |
| @ 100 °C                                                    | 9.5×10 <sup>09</sup> |

## TYPICAL PERFORMANCE OF CURED MATERIAL

### Shear Strength

|                      |                                        |
|----------------------|----------------------------------------|
| Lap Shear Strength : |                                        |
| Al to Al             | N/mm <sup>2</sup> 6.9<br>(psi) (1,000) |

## GENERAL INFORMATION

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

## DIRECTIONS FOR USE

1. Carefully clean and dry all surfaces to be bonded
2. Remove clamp and thoroughly mix the LOCTITE ABLESTIK 2129 BIPAX epoxy adhesive system components in the handy BIPAX mixing-dispenser package until color is uniform throughout
3. Apply this completely mixed adhesive to the prepared surfaces, and gently press these surfaces together. Contact pressure is adequate for strong, reliable bonds; however, maintain contact until adhesive is completely cured
4. Some ingredients in this formulation provided in BIPAX, TRA-PAX and bulk packaging may crystallize when subjected to low temperature storage. A gentle warming cycle of 52°C for 30 minutes prior to mixing components may be necessary. Crystallized epoxy components do not react as well as liquid components and should be redissolved prior to use for best results

### 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 :  $\leq 27^{\circ}\text{C}$** 

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**

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$

$\text{kV/mm} \times 25.4 = \text{V/mil}$

$\text{mm} / 25.4 = \text{inches}$

$\text{N} \times 0.225 = \text{lb}$

$\text{N/mm} \times 5.71 = \text{lb/in}$

$\text{psi} \times 145 = \text{N/mm}^2$

$\text{MPa} = \text{N/mm}^2$

$\text{N} \cdot \text{m} \times 8.851 = \text{lb} \cdot \text{in}$

$\text{N} \cdot \text{m} \times 0.738 = \text{lb} \cdot \text{ft}$

$\text{N} \cdot \text{mm} \times 0.142 = \text{oz} \cdot \text{in}$

$\text{mPa} \cdot \text{s} = \text{cP}$

**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.

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