

LOCTITE ABLESTIK 561KAP

March 2018

PRODUCT DESCRIPTION

LOCTITE ABLESTIK 561KAP provides the following product characteristics:

Technology	Epoxy Film
Appearance	Amber
Cure	Heat cure
Product Benefits	<ul style="list-style-type: none"> • Flexible • Reworkable • Resilient bonds between materials with mismatched CTEs
Application	Component assembly, Assembly film
Carrier Type	Polyimide Film

LOCTITE ABLESTIK 561KAP is designed for bonding materials with mismatched coefficients of thermal expansion. In many bonding applications, components may be repaired. Component joined with LOCTITE ABLESTIK 561KAP adhesive can be debonded by heating the assembly to 150°C and sliding a thin blade, such as a razor blade, between the bonded surfaces.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Work Life @ 25°C, months	90
Shelf Life (from date of qualification in original seal):	
@ 25°C, days	90
@ -40°C, days	365
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE

Cure Schedule

2 hours @ 125°C

Alternate Cure Schedule

30 minutes @ 150°C

The above cure profile is a guideline recommendation. These cure conditions (time and temperature) may vary based on customers' experience and specific application requirements, as well as customer curing equipment, oven loading and actual oven temperatures.

TYPICAL PROPERTIES OF CURED MATERIAL

Electrical Properties

Dielectric Strength, volts/mil	1,400
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TYPICAL PERFORMANCE OF CURED MATERIAL

Lap Shear Strength :

Al to Al @ 25°C

N/mm² 12
(psi) (1,800)

GENERAL INFORMATION

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

DIRECTIONS FOR USE

1. Place precut adhesive film between clean surfaces to be bonded.
2. Assemble components.
3. Apply spring loaded clamp or dead weight to provide continuous pressure of at least 1 to 5 psi during cure cycle.
4. Place assembly in a preheated oven and cure at the recommended cure schedule.

AVAILABILITY

1. LOCTITE ABLESTIK 561KAP adhesive film is available in 12 x 12 inch sheet stock or die cut preforms dimensioned to customer drawings.

Not for product specifications

The technical data contained herein are intended as reference only. Please contact your local Henkel representative for assistance and recommendations on the specifications of this product.

STORAGE

LOCTITE ABLESTIK film products can be stored at -40°C for up to one year. The shelf life of the film is only valid when the material has been stored at the specified storage conditions. Incorrect storage conditions will degrade the performance of the material in final cured properties. Avoid flexing film when frozen.

Conversions

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

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

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