

# **LOCTITE ABLESTIK A 304-6**

September 2015

# PRODUCT DESCRIPTION

LOCTITE ABLESTIK A 304-6 provides the following product characteristics:

Technology	Ероху
Appearance	Light blue
Product Benefits	Non-conductive
	One component
	Readily pourable
	Fast cure
	<ul> <li>Good toughness</li> </ul>
	<ul> <li>Excellent chemical resistance</li> </ul>
Operating Temperature Range	-40 to +155°C
Cure	Heat cure
Application	Adhesive and Sealant
Typical Package	<ul> <li>End cap adhesive for hydraulic oil</li> </ul>
Application	High temperature industrial/aerospace filters

LOCTITE ABLESTIK A 304-6 epoxy adhesive and sealant is designed for high throughput assembly operations.

# TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity @ 25 °C, mPa·s (cP)	21,500
Density, g/cm³	1.5
Shelf Life @ 25 °C, days	120
Flash Point - See SDS	

# TYPICAL CURING PERFORMANCE **Gel Time**

10 minutes @ 120°C 70 seconds @ 160°C

15 seconds @ 180°C

# **Cure Schedule**

1hour @ 120°C 30 minutes @ 160°C 15 minutes @ 180°C

This product generates moderate heat during cure. No adverse exotherm effects are obtained when cured at 160°C in masses up to approximately 30 grams.

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, minimum (units): @ 25°C 80 @ 125°C 50 Thermal Conductivity, W/(m-K) 0.44

Resistance , 200 hours @ 125°C:

Skydrol 500 No attack 7808 Hydraulic Oil No attack Glass Transition Temperature, 1 hr @ 120°C, °C 104 Coefficient of Linear Thermal Expansion, 1 hr @ 120°C, ppm/°C: Below Tg 41 Above Tg 135

Tensile Modulus:

@ 35°C N/mm<sup>2</sup> 3,833 (555,930)(psi) @ 40°C N/mm<sup>2</sup> 3,810 (psi) (552,590)@ 60°C N/mm² 3,603 (psi) (522,570)@ 80°C N/mm<sup>2</sup> 3,032 (439,750)(psi) @ 100°C N/mm<sup>2</sup> 1,794 (260,200)(psi) @ 125°C N/mm² 564 (81,800)(psi) @ 150°C  $N/mm^2$ 244 (35,390)(psi) @ 175°C N/mm<sup>2</sup> 123

# **Electrical Properties**

Volume Resistivity, ohms-cm 1×10<sup>14</sup> Dielectric Strength, kV/mm 15.3

(psi)

(17,840)

# TYPICAL PERFORMANCE OF CURED MATERIAL

# Shear Strength:

Tensile Lap Shear Strength @ 25 °C N/mm<sup>2</sup> 18 (psi) (2,610)

# **GENERAL INFORMATION**

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

# 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: 25 °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

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

### 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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Reference 0.0