

LOCTITE ELA 9395BK

June 2019

PRODUCT DESCRIPTION

LOCTITE ELA 9395BK provides the following product characteristics:

Technology	Silane-modified polymer
Appearance	Black liquid
Cure	Moisture cure
Product Benefits	Fast cure
	One component for easy processing
	 Adheres well to a variety of substrates
Application	Device assembly, Elastomeric adhesive, Structural bonding
Typical Assembly Applications	Consumer electronic device assembly

LOCTITE ELA 9395BK one component silane modified polymer is formulated to cure by reaction with moisture. It is formulated to provide elastomeric properties without causing any cyclic silicone formation. This material creates a low modulus bond/seal between substrates to mitigate the intrusion of moisture and other fluids from entering the device while managing CTE (coefficient of thermal expansion) mismatch between different substrates.

TYPICAL PROPERTIES OF UNCURED MATERIAL

75,000
4.5
1.36

TYPICAL CURING PERFORMANCE

Recommended Cure Schedule

Under normal conditions, atmospheric moisture initiates the curing process. The adhesive develops functional strength in 24 hours and fully cures in 7 days.

Skin Over Time

Skin over time is the time the surface of the adhesive forms a skin upon exposure to atmospheric moisture at $25^{\circ}C$ (± $2^{\circ}C$), 50 RH (±5% RH).

Skin Over Time, minutes

8

Curing performance conditions are provided as a guideline. These conditions may vary based on process environment, application requirements, and adhesive dispensing process.

TYPICAL PROPERTIES OF CURED MATERIAL

Sample cured 24 hours @ 25°C (± 2°C), 50% RH (±10%)

Physical Properties

Hardness, Shore A, ISO 868	50
Elongation at break, ISO 527-2, %	≥180
Tensile Strength, ISO 527-2, N/mm ²	≥3.6

TYPICAL PERFORMANCE OF CURED MATERIAL Shear Strength

Lap Shear Strength , ISO 4587:

Sample cured 2 hours @ 25°C:

- Anodized Aluminum to Anodized Aluminum, ≥ 0.2 N/mm² Sample cured 24 hours @ 25°C:
- Anodized Aluminum to Anodized Aluminum, ≥ 3 N/mm²
- Sample cured 168 hours @ 25°C: Anodized Aluminum to Anodized Aluminum, ≥4.3 N/mm²

GENERAL INFORMATION

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

DIRECTIONS FOR USE

- 1. For best performance bond surfaces should be clean and free from grease.
- 2. Use gloves to minimize skin contact. DO NOT use solvents for cleaning hands.
- 3. For maximum bond strength apply adhesive evenly to the surface to be bonded. Parts should be assembled immediately after adhesive has been applied.
- 4. Join the adhesive coated surfaces and allow to cure.
- Keep the assembled parts from moving during cure. The joint should be allowed to develop full strength before subjecting to any service loads.
- 6. Excessive uncured adhesive can be cleaned up with ketone type solvents.

STORAGE

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

Optimal Storage : 8 to 28 °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

 $(^{\circ}C \ge 1.8) + 32 = ^{\circ}F$ kV/mm $\ge 25.4 =$ V/mil mm / 25.4 = inches N $\ge 0.225 =$ lb/F N/mm $\ge 5.71 =$ lb/in psi $\ge 145 =$ N/mm² MPa = N/mm² N·m $\ge 8.851 =$ lb·in N·m $\ge 0.738 =$ lb·ft N·mm $\ge 0.142 =$ 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 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.

In case products are delivered by Henkel Belgium NV, Henkel Electronic Materials NV, Henkel Nederland BV, Henkel Technologies France SAS and Henkel France SA please additionally note the following:

In case Henkel would be nevertheless held liable, on whatever legal ground, Henkel's liability will in no event exceed the amount of the concerned delivery.

In case products are delivered by Henkel Colombiana, S.A.S. the following disclaimer is applicable:

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. 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.

In case products are delivered by Henkel Corporation, Resin Technology Group, Inc., or Henkel Canada Corporation, the following disclaimer is applicable:

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, Henkel Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits. The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Henkel Corporation patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications.

Trademark usage: [Except as otherwise noted] All trademarks in this document are trademarks and/or registered trademarks of Henkel and its affiliates in the U.S. and elsewhere.

Reference 1