

LOCTITE EDAG 5810 E&C

August 2014

PRODUCT DESCRIPTION

LOCTITE EDAG 5810 E&C provides the following product characteristics:

Epoxy
Silver
Light yellow
16:1
 Two component
 Room temperature cure
 Electrically conductive
Thermally conductive
 High strength
Heat resistant
121°C
Room temperature and Heat cure
Coating
Silver

LOCTITE EDAG 5810 E&C two-component epoxy adhesive is designed to cure at ambient temperatures.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Component A Properties

Viscosity700,000, mPa·s (cP)	700,000
Specific Gravity, g/ml	2.7
Solids Content by weight, %	97
VOC, g/l	63
Flash Point - See SDS	
Component B Properties	

Component B Properties

Viscosity400, mPa·s (cP)	400
Specific Gravity, g/ml	1.02
Solids Content by weight, %	98.5
VOC, g/l	102
Flash Point - See SDS	

Mixed Properties

xou o	20.1.00	
Work Life,	100 gram mass, @ 25°C minutes	45

TYPICAL CURING PERFORMANCE

Cure Schedule

24 hours @ 25°C

Alternate Cure Schedule

2 hours @ 65°C or 1 hour @ 100°C

Cure can be accelerated by exposing the product to elevated temperatures.

It should be noted that conductivity will be improved by curing at elevated temperatures.

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

Sample cured 1 hour @ 100°C

Electrical Properties

Volume Resistivity, ohm-cm

0.0007

TYPICAL PERFORMANCE OF CURED MATERIAL

Sample cured 1 hour @ 100°C

Shear Strength

Lap Shear Strength :

Al to Al

N/mm² 7

(psi) (1,000)

GENERAL INFORMATION

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

DIRECTIONS FOR USE

Mixing/Dilution

 Gently stir with spatula until the mixture is of a uniform consistency.

Application

 LOCTITE EDAG 5810 E&C may be applied by syringe dispensing or stencil printing method..

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 in original, tightly covered containers in clean, dry areas. 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

(°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·m x 0.142 = oz·in mPa·s = cP

Trademark usage

Except as otherwise noted, all trademarks in this document are trademarks of Henkel Corporation in the U.S. and elsewhere. ® denotes a trademark registered in the U.S. Patent and Trademark Office.

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.

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, Inc.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.

Reference 0.1