

LOCTITE C 11054 E&C

February 2018

PRODUCT DESCRIPTION

LOCTITE C 11054 E&C provides the following product characteristics:

Technology	Epoxy
Appearance	Silver
Product Benefits	<ul style="list-style-type: none">• One component• Heat resistant after cure• Electrically conductive• No bleed• Flexible
Cure	Heat Cure
Application	Conductive coating
Filler Type	Silver
Filler content as supplied, by weight, %	55
Operating Temperature	200°C
Typical Assembly Applications	Conductive coatings for tantalum capacitors

LOCTITE C 11054 E&C electrically conductive epoxy coating features fast cure after solvent evaporation when applied on thin films. LOCTITE C 11054 E&C is a lower viscosity version of LOCTITE C 110 E&C.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity @ 25 °C, mPa·s (cP):

Spindle 2, speed 10 rpm 1.75

Density, g/cm³ 1.96

Storage Life (from date of manufacture):

@ 0 to 8°C, days 365

@ 18 to 25°C, days 60

Flash Point - See SDS

TYPICAL CURING PERFORMANCE**Cure Schedule**

1 hour @ 150°C or

30 minutes @ 180°C or

15 minutes @ 200°C

Cure at any of the above temperatures after solvent evaporation.

Thermal stability of the cured material improves with increasing cure temperature.

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**Electrical Properties**

Volume Resistivity @ 25°C, ohm-cm 9×10^{-5}

GENERAL INFORMATION

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

DIRECTIONS FOR USE

1. LOCTITE C 11054 E&C can be applied by brushing, spraying, dipping or silk screening.
2. If thickening occurs due to solvent loss or if a lower viscosity is desired for spray or other application, thin with Butyl cellosolve acetate.
3. Solvent-thinned compound should be used promptly or periodically agitated to avoid filler settling.

STORAGE:

Store in a cool area to retard settling and maintain initial viscosity and flow properties. Store in a tightly closed container to avoid solvent evaporation. Storage information may be indicated on the product container label.

Optimal Storage : 0 to 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.

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.

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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