

LOCTITE EDAG PE 007 E&C

November 2016

PRODUCT DESCRIPTION

LOCTITE EDAG PE 007 E&C provides the following product characteristics:

Technology	Polyurethane
Appearance	Silver
Filler Type	Silver
Solvent	MEK
Product Benefits	<ul style="list-style-type: none"> • Conductive • Extremely flexible • Process ease
Cure	Heat cure or Room temperature cure
Application	Conductive Ink
Typical Medical Device Application	Body contact pads, Medical sensors, ECG/EKG disposable electrodes and TENS pads

LOCTITE EDAG PE 007 E&C is designed to provide controlled electrical properties on flexible substrates. It is suitable for applications using flexographic or rotogravure printing techniques. This adhesive is compatible with EDAG E&C silver and carbon inks.

LOCTITE EDAG PE 007 E&C meets ANSI/AAMI standards for Pregelled ECG Disposable Electrodes (when used with appropriate gel).

TYPICAL PROPERTIES OF UNCURED MATERIAL

Solids Content by Weight, %	50
Viscosity, Zahn Cup #2, seconds	28
Density, kg/l	1.12
Theoretical coverage, m ² /kg:	
@ 25µm	5.91
Shelf Life, from date of qualification in original seal, year	1
Flash Point, °C	-5

TYPICAL CURING PERFORMANCE

Recommended Curing Conditions

2 minutes @ 107°C or
24 hours @ 77°C

Percent Volatiles

VOC, g/l 677

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

Sheet Resistivity, ohms/sq/mil <0.1

DIRECTIONS FOR USE

1. LOCTITE EDAG PE 007 E&C is supplied ready for use.
2. LOCTITE EDAG PE 007 E&C should be thoroughly stirred prior to use. Avoid rapid stirring as this causes air entrapment..
3. Do not allow any metal surface to come in contact with this product.
4. Do not freeze.
5. Keep product container tightly closed when not in use.
6. Keep away from heat, sparks and open flame.
7. Protect material from direct sunlight.
8. Ground and bond containers when transferring materials.

GENERAL INFORMATION

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

CLEAN-UP

The equipment can be cleaned with MEK, MIBK, Acetone or similar solvents.

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 Maximum, keep from freezing.

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

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

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