

LOCTITE EDAG 7019 E&C

November 2022

PRODUCT DESCRIPTION

LOCTITE EDAG 7019 E&C provides the following product characteristics:

Technology	Thermoplastic
Appearance	Grey Paste
Filler Type	Silver, Silver chloride
Silver : Silver chloride Ratio	8 : 2
Product Benefits	• Flexible • Good adhesion • Low electrical resistance • No thinning required • Long screen residence time • Ease of use
Cure	Heat Drying
Application	ECG Electrodes, Bio Medical Sensor
Typical Substrates	Treated and Untreated Polyester

LOCTITE EDAG 7019 E&C is a blend of finely divided silver and silver chloride particles in a thermoplastic resin. It is formulated to provide excellent adhesion to the wide variety of substrates used in the manufacture of electrically conductive medical devices.

TYPICAL PROPERTIES OF UNDRIED MATERIAL

Solids Content by Weight, %	63.3
Viscosity, Brookfield - RVT @ 30°C, mPa·s (cP):	
Spindle 6, speed 20 rpm	14,000
Density, kg/L	2.2
Shelf Life @ 2 to 8°C (from date of manufacture), days	365
Theoretical coverage @ 10 µm dry film thickness, m ² /kg	14
Flash Point, °C	93

TYPICAL DRYING PERFORMANCE

TYPICAL SCREEN PRINTING PROCESS

Screen Mesh, mesh/inch:	
Polyester with solvent-resistant emulsion	230 to 325
Recommended dry film thickness	5 to 14

TYPICAL DRYING CYCLE

VOC, g/L	700
Recommended Drying Cycle, @ 110°C, minutes	10

The above profiles are guideline recommendations. These conditions (time and temperature) may vary based on customers' experience and specific application requirements, as well as customer drying equipment, oven loading and actual oven temperatures.

TYPICAL PROPERTIES OF DRIED MATERIAL

Physical Properties

Adhesion on PET, Cross Hatch, ASTM 3359, grade	5B
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Electrical Properties

Sheet Resistance Ohm/sq/25µm	<0.05
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GENERAL INFORMATION

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

DIRECTIONS FOR USE

1. Contact with metal equipment and exposure to light should be avoided as much as possible due to product's silver chloride content.
2. Surface to be coated must be dry and free of contaminants such as oil or chemical residues.
3. LOCTITE EDAG 7019 E&C is supplied ready for use and does not require dilution.
4. Avoid rapid stirring as this causes air entrapment.
5. Should thinning become necessary, use dibasic ester (DBE) solvent (1 to 2% by weight).
6. The equipment can be cleaned with esters (butylacetate, propylacetate, orethylacetate) or ketones (MEK, Acetone).

CLEAN-UP

The equipment can be cleaned with esters (butylacetate, propylacetate, orethylacetate) or ketones (MEK, Acetone).

STORAGE

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

Optimal Storage : 2 to 8 °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 Henkel Representative.

Conversions

$$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$$

$$\text{kV/mm} \times 25.4 = \text{V/mil}$$

$$\text{mm} / 25.4 = \text{inches}$$

$$\text{N} \times 0.225 = \text{lb/F}$$

$$\text{N/mm} \times 5.71 = \text{lb/in}$$

$$\text{N/mm}^2 \times 145 = \text{psi}$$

$$\text{N/mm}^2 = \text{MPa}$$

$$\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$$

$$\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$$

$$\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$$

$$\text{mPa}\cdot\text{s} = \text{cP}$$

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