

# LOCTITE EDAG 7019 E&C

October 2020

**PRODUCT DESCRIPTION**

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

<b>Technology</b>	Thermoplastic
<b>Appearance</b>	Silver
<b>Filler Type</b>	Silver, Silver chloride
<b>Silver : Silver chloride Ratio</b>	8 : 2
<b>Product Benefits</b>	<ul style="list-style-type: none"><li>• Flexible</li><li>• Good adhesion</li><li>• Low electrical resistance</li><li>• No thinning required</li><li>• Long screen residence time</li><li>• Ease of use</li></ul>
<b>Cure</b>	Hot air drying and Heat cure
<b>Application</b>	Conductive Ink

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 UNCURED MATERIAL**

Solids Content by Weight, +/- 2%, %	63.3
Viscosity, Brookfield - RVT @ 30°C, mPa·s (cP): Spindle 6, speed 20 rpm	14,000
Density, kg/l	2.17
Shelf Life @ 2 to 8°C (from date of manufacture), days	365
Flash Point, °C	93

**TYPICAL SCREEN PRINTING PROCESS**

Screen Mesh: Polyester with solvent-resistant emulsion	230 to 325
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**TYPICAL DRYING and CURE CYCLE**

VOC, g/l	700
Recommended Drying Cycle	5 minute flash, Bake 30 minutes @ 71°C
Recommended dry film thickness, µm	5 to 14.4
Recommended Cure Schedule	10 minutes @ 107°C

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 CURED MATERIAL****Electrical Properties**

Electrical Resistance, ohm/sq/mil <0.05

**GENERAL INFORMATION**

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

**DIRECTIONS FOR USE**

1. Keep from freezing.
2. The equipment can be cleaned with Methyl ethyl ketone (MEK).

**CLEAN-UP**

To clean screen and equipment, use Methyl ethyl ketone (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 : 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**

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

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