## PRODUCT DESCRIPTION

**LOCTITE EDAG 965SS E&C** provides the following product characteristics:

<table>
<thead>
<tr>
<th>Technology</th>
<th>Thermoplastic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Dark gray</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>100°C</td>
</tr>
</tbody>
</table>

### Product Benefits
- Conductive
- Screen printable
- Excellent screen residence time
- Flexible low temperature drying cycles
- Excellent adhesion to polyester film and other Acheson silver inks

<table>
<thead>
<tr>
<th>Cure</th>
<th>Heat cure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application</td>
<td>Conductive coating</td>
</tr>
</tbody>
</table>

### Typical Assembly Applications
- Protective coating on silver tracks and pads in membrane switches, keyboards, Conductive jumpers in membrane switches or Protection against electrostatic discharge (ESD)

LOCTITE EDAG 965SS E&C is designed for use in the production of low voltage circuitry on polyester to protect silver pads and tracks from chemical attack and silver migration. It consists of very finely divided graphite particles dispersed in a thermoplastic resin.

## TYPICAL PROPERTIES OF UNCURED MATERIAL

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solids Content by Weight, %</td>
<td>38</td>
</tr>
<tr>
<td>Viscosity @ 20 ºC, mPa·s (cP):</td>
<td></td>
</tr>
<tr>
<td>Speed 20 rpm</td>
<td>32,500</td>
</tr>
<tr>
<td>Density, kg/cm³</td>
<td>1,100</td>
</tr>
<tr>
<td>Theoretical coverage, m² /kg:</td>
<td></td>
</tr>
<tr>
<td>Wet product @ 10 µm dry coating thickness</td>
<td>30</td>
</tr>
<tr>
<td>Shelf Life @ 5 to 30°C, days</td>
<td>365</td>
</tr>
<tr>
<td>Flash Point, ºC</td>
<td>110</td>
</tr>
</tbody>
</table>

## TYPICAL SCREEN PRINTING PROCESS

### Printing Equipment Type
- Manual
- Semi-automatic
- Reel-to-reel

### Recommended Screen Type
- Monofilament polyester screen, threads/cm: 61 to 90

### Recommended Squeegee
- Polyurethane, durometer: 70 to 75

### Applied Dry Coating Thickness
- Applied Dry Coating Thickness, µm: 8 to 10

### Emulsion Thickness
- Emulsion Thickness, µm: 20 to 40

## TYPICAL DRYING CYCLE

**Recommended Drying Cycle**
- Conventional Air Circulated Oven
  - 30 minutes @ 90 ºC
  - 15 minutes @ 120 ºC

LOCTITE EDAG 965SS E&C can be dried immediately after printing at temperatures between ºC. The higher the temperature, the lower the sheet resistance and the better the mechanical properties.

For high speed production, jet drying, infra red drying and drying in high speed reel-to-reel equipment can be used successfully.

## TYPICAL PROPERTIES OF CURED MATERIAL

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry Coating on untreated Polyester film, dried 15 min @ 120ºC</td>
<td></td>
</tr>
<tr>
<td>Adhesion</td>
<td>5B</td>
</tr>
</tbody>
</table>

### Physical Properties
- Sheet Resistivity, ohms/sq:
  - @ 1 mil dry coating thickness: <60

### Electrical Properties
- Sheet Resistivity, ohms/sq:
  - @ 1 mil dry coating thickness: <60

## GENERAL INFORMATION

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

## DIRECTIONS FOR USE

### 1. Surface Preparation
- Surface to be coated must be dry and free on contaminants such as oil or chemical residues.

### 2. Mixing/Dilution
- LOCTITE EDAG 965SS E&C is supplied ready for use and does not require dilution.
- Avoid rapid stirring, as this causes air entrapment.
- Should thinning become necessary, use Electrodag Diluent 1 or carbitol acetate (1 to 3% by weight).

### 3. Cleanup
- The equipment can be cleaned with MEK, MIBK, Acetone or similar solvents.

## Storage
Store product in the unopened container in a cool dry well ventilated area. Storage information may be indicated on the product container labeling.

**Optimal Storage**: 5 to 30 ºC

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 Support Department.
Service Center or Customer Service Representative.

Empty containers may retain hazardous properties.

**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**

\[(°C \times 1.8) + 32 = °F\]
\[kV/mm \times 25.4 = V/mil\]
\[mm / 25.4 = inches\]
\[N \times 0.225 = lb\]
\[N/mm \times 5.71 = lb/in\]
\[N/mm² \times 145 = psi\]
\[MPa = N/mm²\]
\[MPa \times 145 = psi\]
\[N·m \times 8.85 = lb·in\]
\[N·m \times 0.738 = lb·ft\]
\[N·mm \times 0.142 = oz·in\]
\[mPa·s = cP\]

**Disclaimer**

*Note:*
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*Reference 0.1*