

LOCTITE EDAG 965SS E&C

November 2016

PRODUCT DESCRIPTION

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

Technology	Thermoplastic
Appearance	Dark gray
Operating Temperature - Continuous	100°C
Product Benefits	<ul style="list-style-type: none"> • Conductive • Screen printable • Excellent screen residence time • Flexible low temperature drying cycles • Excellent adhesion to polyester film and other LOCTITE silver inks
Cure	Heat cure
Application	Conductive coating
Typical Assembly Applications	<ul style="list-style-type: none"> • Protective coating on silver tracks and pads in membrane switches • keyboards • Conductive jumpers in membrane switches • 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

Solids Content by Weight, %	38
Viscosity @ 20 °C, mPa·s (cP):	
Speed 20 rpm	32,500
Density, kg/cm ³	1,100
Theoretical coverage, m ² /kg:	
Wet product @ 10 µm dry coating thickness	30
Shelf Life @ 5 to 30°C, days	365
Flash Point , °C	110

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°C
15 minutes @ 120 °C

LOCTITE EDAG 965SS E&C can be dried immediately after printing at temperatures between °C. 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

Dry Coating on untreated Polyester film, dried 15 min @ 120°C

Physical Properties

Adhesion 5B

Electrical Properties

Sheet Resistivity, ohms/sq:
@ 1 mil dry coating thickness <60

GENERAL INFORMATION

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

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 °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.

Empty containers may retain hazardous properties.

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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Reference 0.2