

LOCTITE EDAG ML 25240 E&C

September 2014

PRODUCT DESCRIPTION

LOCTITE EDAG ML 25240 E&C provides the following product characteristics:

Technology	Acrylic
Appearance	Green
Operating Temperature-Maximum	149°C
Product Benefits	• Screen printable • Insulating • Dielectric • Fast UV cure • Excellent adhesion • High peel strength in high temperatures and humidity
Cure	Ultraviolet (UV) light
Application	Dielectric ink
Typical Applications	Insulating crossover bridge, Dot spacer for digitizers and Spacer for copper etched circuitry
Key Substrates	ITO sputtered polyester film, Metals and Glass

LOCTITE EDAG ML 25240 E&C screen printable ink is designed for use as an insulator for printed circuitry or dot spacer on ITO sputtered polyester film

This product is compatible with most screen printable EDAG E&C silver and carbon inks

LOCTITE EDAG ML 25240 E&C does not adhere well to non-print treated, non-ITO sputtered polyester film

TYPICAL PROPERTIES OF UNCURED MATERIAL

Solids Content by Weight, %	100
Density, kg/l	1.15
Viscosity, Brookfield - RVT, 25 °C, mPa·s (cP):	
Spindle 5, speed 20 rpm,	7,500
Shelf Life @ below 60°C, days	365
(from date of qualification in original seal)	
Flash Point, °C	>93

TYPICAL SCREEN PRINTING PROCESS

Recommended Film Thickness

For crossovers, µm	28 to 51
For spacers, µm	51 to 76
80 mesh screen, µm	51 to 76
160 mesh screen, µm	33
200 mesh screen, µm	23 to 25

Emulsion Type

Diazo sensitized direct photo film

Recommended Screen Mesh

Polyester Mesh, T	80 to 300
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When using as a crossover, be sure to flash cure the inks printed over it within 5 minutes. Do not let the ink printed over LOCTITE EDAG ML 25240 E&C air dry for extended periods of time.

TYPICAL CURING PERFORMANCE

Recommended UV Cure Condition

@ 25µm, EIT Radiometer, Joule/cm ² each pass	0.3 to 0.6
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At thickness greater than 25µm, lower speeds and higher intensities are needed.

The above cure profile is a guideline recommendation. 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

Physical Properties :

Theoretical Coverage @ 25µm, m ² /l	39.3
Adhesion to ITO film, @ 25µm film thickness	5B

Electrical Properties:

Dielectric Strength, IEC 60243-1, @ 25µm, volts	2,500
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GENERAL INFORMATION

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

DIRECTIONS FOR USE

1. LOCTITE EDAG ML 25240 E&C is supplied ready for use.
2. Do not let inks printed over this material air dry for extended periods of time.
3. Do not freeze.

Clean-up

To clean screen and equipment, use MEK, MIBK, Isopropanol or similar solvents

Storage

Store product in original container, undiluted. Storage container may be indicated on the product container labeling.

Keep container tightly closed when not in use.

Optimal Storage: Below 60°C. Storage greater than 60°C can adversely affect product properties.

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.

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

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

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