

LOCTITE EDAG PD 038 E&C

September 2014

PRODUCT DESCRIPTION

LOCTITE EDAG PD 038 E&C provides the following product characteristics:

Technology	Acrylic
Appearance	Translucent
Product Benefits	<ul style="list-style-type: none"> • Non-conductive • Screen printable • Excellent adhesion • High peel strength • Fast UV cure • Dots printable at high aspect ratio
Cure	Ultraviolet (UV)/ visible light
Application	Dielectric coating
Operating Temperature-Maximum	175°C
Typical Assembly Applications	Dot spacer for digitizers, Computer touch panels, Palm top touch panels and Spacer for copper etched circuitry
Key Substrates	ITO sputtered polyester film, Copper circuitry, Glass and Metal substrates

LOCTITE EDAG PD 038 E&C dielectric ink is used as a dot spacer on ITO sputtered polyester film. This product does not adhere well to non-printed treated, non-ITO sputtered polyester film.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Solids Content, %	100
Viscosity, Brookfield , mPa·s (cP): Spindle 6, speed 20 rpm, , @ 25°C	20,000
Density, kg/cm ³	1,090
Shelf Life (from date of qualification in original seal): below 60°C , days	365

TYPICAL SCREEN PRINTING PROCESS

Recommended Film Thickness

Polyester screen , μm	
@ 32 T	50 to 75
@ 64 T	33
@ 80 T	23 to 25

Emulsion Type

Diazo sensitized direct photo film

Recommended Squeegee

Polyurethane , durometer	60 to 75
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Recommended Screen Type

Polyester screen , T	32 to 80
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Printing Equipment Type

Manual	
Semi-automatic	

TYPICAL CURING PERFORMANCE

Recommended UV Cure Condition

@ 25μm, EIT Radiometer, Joule/cm² each pass 0.3 to 0.6

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

Coverage @ 10μm thickness, m ² /kg	85
Adhesion, grade: 50μm thick ITO film	5B

GENERAL INFORMATION

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

DIRECTIONS FOR USE

1. Stir LOCTITE EDAG PD 038 E&C prior to each use.
2. Bring product to room temperature prior to use.

Clean-up

To clean screen and equipment, use Methyl ethyl ketone (MEK), MIBK, Isopropanol 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: 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

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$
 kV/mm $\times 25.4 = \text{V/mil}$
 mm / 25.4 = inches
 N $\times 0.225 = \text{lb}$
 N/mm $\times 5.71 = \text{lb/in}$
 N/mm² $\times 145 = \text{psi}$
 MPa = N/mm²
 MPa $\times 145 = \text{psi}$
 N·m $\times 8.851 = \text{lb-in}$
 N·m $\times 0.738 = \text{lb-ft}$
 N·mm $\times 0.142 = \text{oz-in}$
 mPa·s = cP

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