

# LOCTITE EDAG PD 038 E&C

September 2014

## PRODUCT DESCRIPTION

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

<b>Technology</b>	Acrylic
<b>Appearance</b>	Translucent
<b>Product Benefits</b>	<ul style="list-style-type: none"> <li>• Non-conductive</li> <li>• Screen printable</li> <li>• Excellent adhesion</li> <li>• High peel strength</li> <li>• Fast UV cure</li> <li>• Dots printable at high aspect ratio</li> </ul>
<b>Cure</b>	Ultraviolet (UV)/ visible light
<b>Application</b>	Dielectric coating
<b>Operating Temperature-Maximum</b>	175°C
<b>Typical Assembly Applications</b>	Dot spacer for digitizers, Computer touch panels, Palm top touch panels and Spacer for copper etched circuitry
<b>Key Substrates</b>	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 <sup>3</sup>	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/cm<sup>2</sup> 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 <sup>2</sup> /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**

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

**Disclaimer****Note:**

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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