

LOCTITE EDAG 1020A E&C

September 2012

PRODUCT DESCRIPTION

LOCTITE EDAG 1020A E&C provides the following product characteristics:

Technology	Acrylate
Appearance	Transparent blue
Product Benefits	• Screen printable • High breakdown voltage • Solvent resistant • UV curable • Excellent flexibility • Excellent printability • Excellent moisture resistance • Excellent adhesion to polyester film
Cure	Ultraviolet (UV) light
Application	Dielectric coating
Typical Assembly Applications	Protective coating for membrane tails

LOCTITE EDAG 1020A E&C dielectric coating is formulated to provide electrical insulation on flexible circuitry. It is designed to print multi-layered circuits and conductive crossovers. LOCTITE EDAG 1020A E&C is compatible with other LOCTITE EDAG inks.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Solids Content, %	100
Viscosity, Brookfield, 25 °C, mPa·s (cP):	
Spindle 5, speed 20 rpm,	6,000
Density:	
lbs/gal	8.04
kg/l	1.05
Shelf Life (from date of qualification in original seal):	
@ 25°C, days	548

TYPICAL SCREEN PRINTING PROCESS

Recommended Screen Type

Polyester screen, mesh	160 to 280
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Emulsion Type

Solvent resistant emulsion

Recommended Film Thickness

Total Film Thickness, µm	25 to 38
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A double pass (cured between passes) is suggested for electrical insulation applications. Each pass should have a thickness of 12.7 to 20.3µm per pass.

TYPICAL CURING PERFORMANCE

Recommended UV Cure

Light Dose, EIT radiometer, mJ/in ²	400 to 500
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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, sq ft/gal	1,600
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Electrical Properties

Dielectric Strength, volts/mil	>1,000
Insulation Resistance, meg-ohms	>1,000

GENERAL INFORMATION

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

DIRECTIONS FOR USE

1. Stir LOCTITE EDAG 1020A E&C prior to each use.
2. Bring product to room temperature prior to use.
3. Flammable. Keep away from heat, sparks and open flame.

Clean-up

To clean screen and equipment, use Methyl ethyl ketone (MEK) and other suitable solvents

Storage

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

Optimal Storage : 25 °C Keep from freezing.

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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