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

<table>
<thead>
<tr>
<th>Technology</th>
<th>Acrylate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Transparent blue</td>
</tr>
<tr>
<td>Product Benefits</td>
<td></td>
</tr>
<tr>
<td>Screen printable</td>
<td></td>
</tr>
<tr>
<td>High breakdown voltage</td>
<td></td>
</tr>
<tr>
<td>Solvent resistant</td>
<td></td>
</tr>
<tr>
<td>UV curable</td>
<td></td>
</tr>
<tr>
<td>Excellent flexibility</td>
<td></td>
</tr>
<tr>
<td>Excellent printability</td>
<td></td>
</tr>
<tr>
<td>Excellent moisture resistance</td>
<td></td>
</tr>
<tr>
<td>Excellent adhesion to polyester film</td>
<td></td>
</tr>
</tbody>
</table>

Cure
Ultraviolet (UV) light

Application
Dielectric coating

Typical Assembly
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

<table>
<thead>
<tr>
<th>Solids Content, %</th>
<th>100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity, Brookfield, 25 °C, mPa·s (cP):</td>
<td>6,000</td>
</tr>
<tr>
<td>Density:</td>
<td></td>
</tr>
<tr>
<td>lbs/gal</td>
<td>8.04</td>
</tr>
<tr>
<td>kg/l</td>
<td>1.05</td>
</tr>
<tr>
<td>Shelf Life (from date of qualification in original seal):</td>
<td></td>
</tr>
<tr>
<td>@ 25°C, days</td>
<td>548</td>
</tr>
</tbody>
</table>

TYPICAL SCREEN PRINTING PROCESS

Recommended Screen Type
Polyester screen, mesh 160 to 280

Emulsion Type
Solvent resistant emulsion

Recommended Film Thickness
Total Film Thickness, µm 25 to 38

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/in² 400 to 500

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

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

\( ^\circ C \times 1.8) + 32 = ^\circ F \)

\( \text{kV/mm} \times 25.4 = \text{V/mil} \)

\( \frac{\text{mm}}{25.4} = \text{inches} \)

\( \text{N} \times 0.225 = \text{lb} \)

\( \frac{\text{N/mm}}{25.4} = \text{lb/in} \)

\( \frac{\text{MPa}}{145} = \text{psi} \)

\( \text{MPa} \times 145 = \text{psi} \)

\( \frac{\text{N\cdot m}}{8.851} = \text{lb\cdot in} \)

\( \frac{\text{N\cdot m}}{0.738} = \text{lb\cdot ft} \)

\( \frac{\text{N\cdot mm}}{0.142} = \text{oz\cdot in} \)

\( \text{mPa\cdot s} = \text{cP} \)

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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Reference 0.1