

LOCTITE EDAG PF 006 E&C

August 2016

PRODUCT DESCRIPTION

LOCTITE EDAG PF 006 E&C provides the following product characteristics:

| | |
|-------------------------|--|
| Technology | Thermoplastic |
| Appearance | Silver liquid |
| Cure | Heat cure |
| Product Benefits | <ul style="list-style-type: none"> Screen printable |
| Application | Conductive Ink |

LOCTITE EDAG PF 006 E&C is a blend of silver and carbon in a thermoplastic resin system.

TYPICAL PROPERTIES OF UNCURED MATERIAL

| | |
|--|--------|
| Solids Content by Weight, % | 57 |
| Viscosity @ 30 °C, mPa·s (cP): | |
| Spindle 6, speed 20 rpm | 16,000 |
| Density, kg/l | 1.73 |
| Shelf Life (from date of qualification in original seal), days | 365 |
| VOC, g/l | 742 |
| Flash Point, °C | 107 |

TYPICAL CURING PERFORMANCE

Recommended Cure Schedule

5 minutes @ 120°C

This product can also be cured using infrared.

Low conductivity and poor adhesion can result from undercuring.

The above cure profiles are guideline recommendations. 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, m ² /kg | 5.96 |
|--|------|

Electrical Properties

| | |
|--------------------------|-------|
| Resistivity, ohms/sq/mil | <0.02 |
|--------------------------|-------|

GENERAL INFORMATION

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

DIRECTIONS FOR USE

1. Mixing/Dilution

- LOCTITE EDAG PF 006 E&C is ready to use but should be mixed thoroughly using a plastic spatula.
- Mix smoothly from bottom of container, careful not to whip air in to the product. Using a plastic spatula will decrease the possibility of introducing plastic grindings from the container

sidewalls into the product, possibly clogging the screens

- LOCTITE EDAG PF 006 E&C should be at room temperature prior to use.

2. Screen Type

- Optimal performance of this product is achieved when printed at a cured thickness of 0.25-0.4 mils.
- Using a polyester screen with 160 to 200 mesh opening or a stainless steel with 170 to 325 mesh opening will achieve best results.
- A solvent-resistant emulsion of 0.5 to 1.5 mils is recommended.

Clean-up

To clean screen and equipment, use MEK or similar solvents. Clean the mesh of the screen until free of all visible particles in the screen. Allow screen to completely dry before using again.

Storage

Store product in the unopened container in a cool dry well ventilated area. Storage information may be indicated on the product container labeling.

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

(°C x 1.8) + 32 = °F
 kV/mm x 25.4 = V/mil
 mm / 25.4 = inches
 N x 0.225 = lb
 N/mm x 5.71 = lb/in
 psi x 145 = N/mm²
 MPa = N/mm²
 N·m x 8.851 = lb·in
 N·m x 0.738 = lb·ft
 N·mm x 0.142 = oz·in
 mPa·s = cP

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