

LOCTITE EDAG PE 428E E&C

October 2014

PRODUCT DESCRIPTION

LOCTITE EDAG PE 428E E&C provides the following product characteristics:

| | |
|------------------------------------|--|
| Technology | Thermoplastic |
| Appearance | Gray |
| Filler Type | Silver and Silver chloride blend |
| Product Benefits | <ul style="list-style-type: none"> Compatible with other Acheson silver and carbon inks |
| Diluent | Water |
| Cure | Air dry |
| Application | Conductive coating |
| Typical Medical Device Application | Body contact pads, Medical sensors, ECG/EKG disposable electrodes and TENS pads |

LOCTITE EDAG PE 428E E&C is a blend of silver and silver chloride pigment in a resin system designed for printing on flexible substrates. It is suitable for applications using flexographic or rotogravure printing techniques.

LOCTITE EDAG PE 428E E&C meets ANSI/AAMI standards for Pregelled ECG Disposable Electrodes (when used with appropriate gel).

TYPICAL PROPERTIES OF UNCURED MATERIAL

| | |
|--|-------|
| Solids Content, % | 77 |
| Particle Size, μm | <100 |
| Viscosity, Brookfield, 20 °C, mPa·s (cP): | |
| Speed 20 rpm | 1,220 |
| Theoretical coverage @ 25 μm , m^2/kg | 5.85 |
| Shelf Life (from date of qualification in original seal), months | 12 |
| Flash Point, °C | >100 |

TYPICAL CURING PERFORMANCE

Recommended Cure Schedule

15 minutes @ 95°C

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

Dry Coating on Glass after 10 minutes @ 70°C

Electrical Properties

| | |
|---|--------|
| Sheet Resistivity, ohms/square/25 μm | 0.0175 |
|---|--------|

GENERAL INFORMATION

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

DIRECTIONS FOR USE

Application

- This product can be applied by flexographic or rotogravure printing and dispensing methods.
- LOCTITE EDAG PE 428E E&C should be printed at a thickness of 5 to 7.5 μm dried.
- Avoid contact with metallic materials. Use plastic stirrers and containers.

Mixing/Dilution

- Gently stir product or place on a paint shaker prior to use. Avoid rapid stirring, as this causes air entrapment.
- LOCTITE EDAG PE 428E E&C is supplied ready for use.
- If thinning becomes necessary, dilute with small amounts of Water being careful to maintain a high content of solids, maximum amount not to exceed 5% by weight.

Storage

Keep from freezing.

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.

Empty containers may retain hazardous properties.

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

Reference 0.0

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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