

LOCTITE EDAG PM 460A E&C

October 2014

PRODUCT DESCRIPTION

LOCTITE EDAG PM 460A E&C provides the following product characteristics:

Technology	Thermoplastic
Appearance	Silver
Operating Temperature-Maximum	105°C
Solvent	n-Propylacetate
Product Benefits	<ul style="list-style-type: none"> Conductive Flexible coating
Cure	Hot air drying or infrared
Application	Conductive coating
Typical Assembly Applications	Electronic circuitry, RFID antenna and Bio and medical sensors
Key Substrates	Plastics and Paper substrates

LOCTITE EDAG PM 460A E&C is designed to dry rapidly to form a flexible, conductive coating. It is suitable for applications using flexographic or rotogravure printing techniques. The coating will maintain its low resistance even after exposure to heat, cold and humid conditions.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Solids Content, %	72
Viscosity @ 20 °C, mPa·s (cP):	
Speed 20 rpm	4,000
Density, kg/cm³	2,340
Theoretical coverage, m² /kg:	
@ 10 µm coating thickness	11
Shelf Life @5 to 30°C, year	1
(from date of qualification in original seal)	
Flash Point, °C	12

TYPICAL PROPERTIES OF CURED MATERIAL

Coating on Glass, dried 15 minutes @ 70°C

Electrical Properties

Sheet Resistivity, ohms/sq:	
@ 1 mil coating thickness	<0.01

GENERAL INFORMATION

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

DIRECTIONS FOR USE

1. Surface Preparation

- Surface to be coated must be dry and free on contaminants such as oil or chemical residues.

2. Mixing/Dilution

- Thoroughly mix LOCTITE EDAG PM 460A E&C before use. There should be no unmixed solid material left at the bottom of the container.
- The product can be diluted with n-Propylacetate to the required viscosity level for flexographic or rotogravure printing.
- Dilution should be kept to a minimum to avoid too much reduction of the dry film deposit.

3. Application

- This product can be applied by flexographic or rotogravure printing techniques.
- A dry coating thickness up to 2 µm in one print pass can be applied by selecting the proper anilox or gravures.
- If higher coating thicknesses are required, this should be applied in more than one print pass.

4. Drying

- Use high velocity hot air and/or infra-red systems for optimum performance.
- High temperatures for long durations improve performance.
- Design drying rates for the maximum the substrate and production speeds can tolerate.

5. Cleanup

- The equipment can be cleaned with ketones (MIBK, MEK) or esters (n-Propylacetate, Ethyl Acetate).

Storage

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

Optimal Storage : 5 to 30 °C

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

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

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