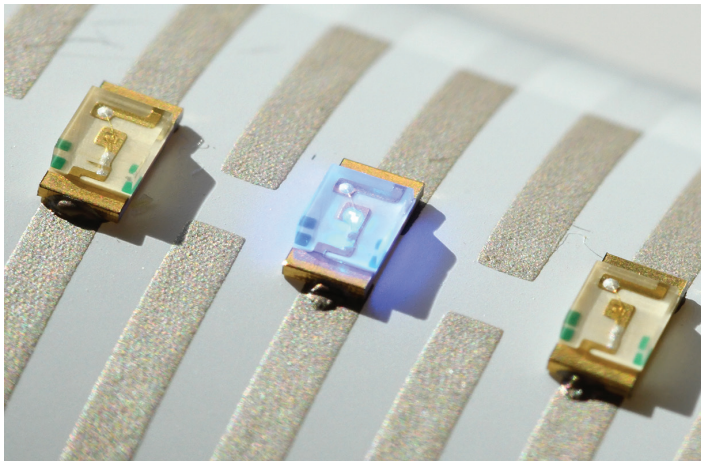


DuPont™ ME902

Electrically Conductive Adhesive

Product Description

DuPont™ ME902 is a part of the DuPont suite of materials developed for In-Mold Electronic applications. ME902 is an electrically conductive adhesive system for use in stencil-printing and syringe-dispensing applications. Its unique formulation provides good adhesion between SMD components and DuPont silver conductive pastes after heat curing. DuPont™ ME902 maintains some flexibility after drying, which enables handling & thermoforming of IME circuits on thin substrates. It maintains its properties after over-molding.



Product Benefits

- One part electrically conductive adhesive
- Good adhesion with flexibility for IME applications
- Excellent performance after thermoforming & over-molding
- Apply via stencil-printing or syringe-dispensing

Typical Physical and Electrical Properties

Test	Properties
Solids, (%) @ 150°C	75 - 77
Viscosity, (Pa.s) [Brookfield RVT #14 Spindle; 10 RPM, 25°C]	40 - 90
Recommended Thinner	3610
Resistivity (mΩ/sq/mil) [serpentine pattern, 14µm thickness]	100 - 150
Component Shear Strength (grams-force) [1206-size SMD LEDs on DuPont™ silver]	1000 - 1200

This table shows anticipated typical physical properties for DuPont™ ME902 based on specific controlled experiments in our labs and are not intended to represent the product specifications, details of which are available upon request.

Processing

Substrates

DuPont silver pastes on polycarbonate or surface-treated polyester

Application Equipment Compatibility*

- EFD Fluid Dispensing Systems, bench-top or robotic
- Stencil-printing
- Screen-printing (thinning is required)

*Additional information in ME902 Process Guide

Residence Time on Stencil

Up to 1 hour; tested using a 0.004" stainless steel stencil with a series of 0.040"x0.065" holes.

Typical Drying Conditions

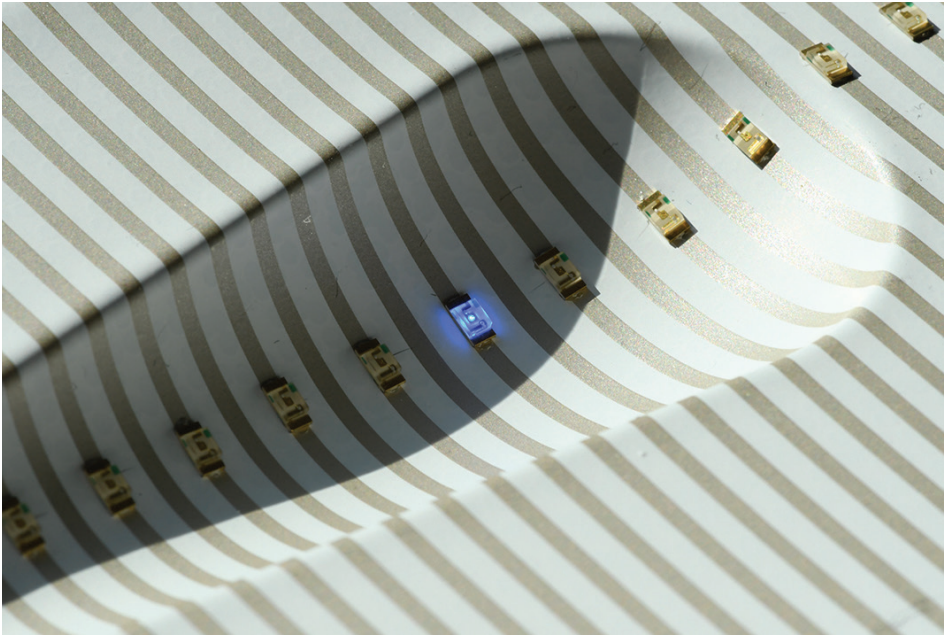
Box oven: 120°C for 20 minutes in a well-ventilated oven

Typical Thickness after Drying

30~50µm when stencil-printed with a ~100µm thick stencil

Clean-Up Solvent

Ethylene glycol diacetate



Storage and Shelf Life

Containers should be stored, tightly sealed, in a clean, stable environment at room temperature (<25°C). Shelf life of material in unopened containers is six months from date of shipment. Some settling of solids may occur and compositions should be thoroughly mixed prior to use.

Safety and Handling

For Safety and Handling information pertaining to this product, read the Safety Data Sheet (SDS).



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For more information on DuPont™ ME902 or other DuPont products, please visit our website.

The information provided in this data sheet corresponds to our knowledge on the subject at the date of its publication. It may be subject to revision as new knowledge and experience becomes available. This information is not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for your particular purposes. Since we cannot anticipate all variations in end-use and disposal conditions, DuPont makes no warranties and assumes no liability in connection with any use of this information. It is intended for use by persons having technical skill, at their own discretion and risk. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent right.

CAUTION: Do not use in medical applications involving permanent implantation in the human body. For other medical applications, see "DuPont Medical Caution Statement," H-50102-5 and "DuPont Policy Regarding Medical Applications" H-50103-5.

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