

DuPont™ PE830

Silver Conductor Paste



Product Description

DuPont™ PE830 is a flexible, high resilience low temperature drying silver conductor paste. Suitable for low-voltage consumer electronic applications, PE830 can withstand extreme bend requirements and is stable on substrates that are processed at low temperatures. Due to its unique rheology, this paste can be either dispensed or screen printed.

Product Benefits

- Extreme bend resilience
- Stable low resistance
- Stable conductivity throughout processing and use
- Excellent adhesion to a variety of substrates; such as polyester, polyimide, metal/metal oxide surfaces
- Low temperature drying process
- Strong adhesion to metal surfaces
- High temp/humidity stability

Typical Physical & Electrical Properties

Test	Properties
Solids (%) @ 150°C	65 - 75
Viscosity (Pa·s) [Brookfield RVT, #14 Spindle 10 RPM, 25°C]	13 - 23
Thinner	DuPont™ 8210
Sheet Resistivity (mΩ/sq/mil)	<40
Adhesion/Tape test (3M Scotch tap #600)	No Ag Transfer

Processing

Process Technique

- Screen printing, dispensing, or dip coating

Curing*

- Dry at 65°C for 1hr; Thickness < 20µm
- Dry at 130°C for 15 min; Thickness < 20µm

Screens/Nozzle Clean up Solvent

- Ethylene diacetate or methyl propyl acetate

*Equipment dependent

Paste Preparation

Some settling of solids may occur and compositions should be thoroughly mixed prior to use. Printing should be conducted in a clean, well-ventilated area. Thinning may be desired in some cases depending on printing requirements, please contact DuPont representative for the recommended thinner for slight rheology adjustments.

Storage and Shelf Life

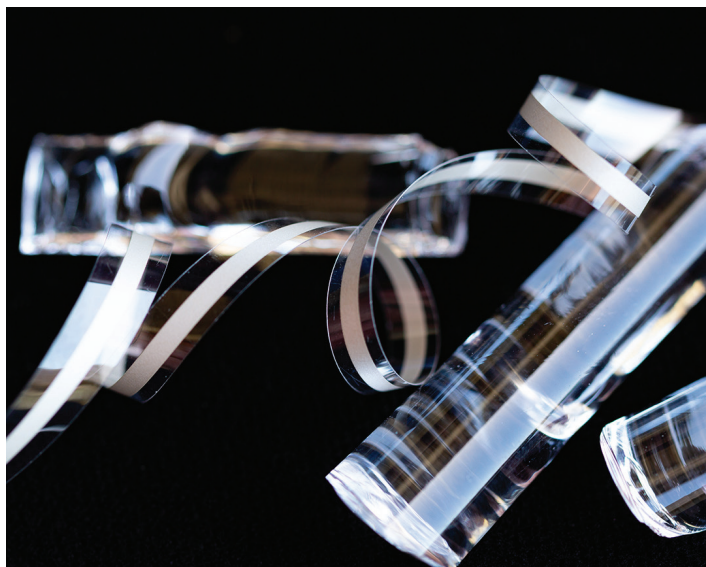
Containers should be stored in a clean, stable environment at room temperature (<25°C) with the lids tightly sealed. Shelf life of material in an unopened container is 6 months from the date of shipment.

Lifetime in Syringe

Syringes should be used in a clean, stable environment at room temperature (<25°C). Shelf life of material in a syringe is week from the date of applied into syringe.

Safety and Handling

For more information pertaining to product handling and safety regulations, please refer to the Material Safety Data Sheet (MSDS).



Applicable uses (not limited to): High conductivity applications, flexible electronic applications, bendable screens, etc.



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For more information on DuPont™ PE830 or other DuPont products, please visit our website.

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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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