

DUPONT™ KAPTON™ KA801

POLYIMIDE SILVER CONDUCTOR

PRODUCT DESCRIPTION

DuPont™ Kapton™ KA801 is a screen printable polyimide silver conductor paste. This composition is particularly suited for applications where high operating temperatures are required.

PRODUCT BENEFITS

- Ag for higher temperature operation up to 225°C
- Good thermal/chemical stability
- Excellent adhesion to a variety of substrates

PROCESSING CONDITIONS

Substrates

• Kapton® FPC, Kapton® RS, FR-4, Aluminum, Alumina, glass

Screen Printing Equipment

- Automatic reel-to-reel
- Semi-automatic flat-bed

Screens

• 325-mesh stainless steel $(8 - 10 \mu m)$

Drying

Box oven: 130-200°C for 10 – 30 minutes Reel-to-reel: 130-200°C for 2 – 4 minutes

Clean-Up Solvent

Butyl carbitol acetate

Table 1-Composition Properties

| Test | Properties |
|--|--------------|
| Solids (%) @ 150°C | 71 – 77 |
| Viscosity (Pa.s) [Brookfield 0.5 x RVT, #14 Spindle 10 RPM, 25°C] | 20 – 50 |
| Coverage (cm ² /g) | 160 @ 8 μm |
| Dried Print Thickness | 8 – 10 μm |
| Thinner | DuPont™ 8218 |

Table 2-Typical Physical Properties

| Test | Properties |
|--|------------|
| Sheet Resistivity (mΩ/sq/mil) @200°C | ≤5 |
| Abrasion Resistance (H) [ASTM Pencil Hardness] | ≥3H |

Tables 1 & 2 show anticipated typical physical properties for DuPont™ Kapton™ KA801 based on specific experiments and are not intended to represent the product specifications.

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. Thinning with DuPont™ 3610 may be desired in some cases depending on printing requirements.

SAFETY AND HANDLING

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

^{*}Equipment dependent



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FOR MORE INFORMATION ON DUPONT™ KAPTON™ KA801 OR OTHER DUPONT MICROCIRCUIT MATERIALS PRODUCTS, PLEASE CONTACT YOUR LOCAL REPRESENTATIVE:

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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. K-28965 (11/15)