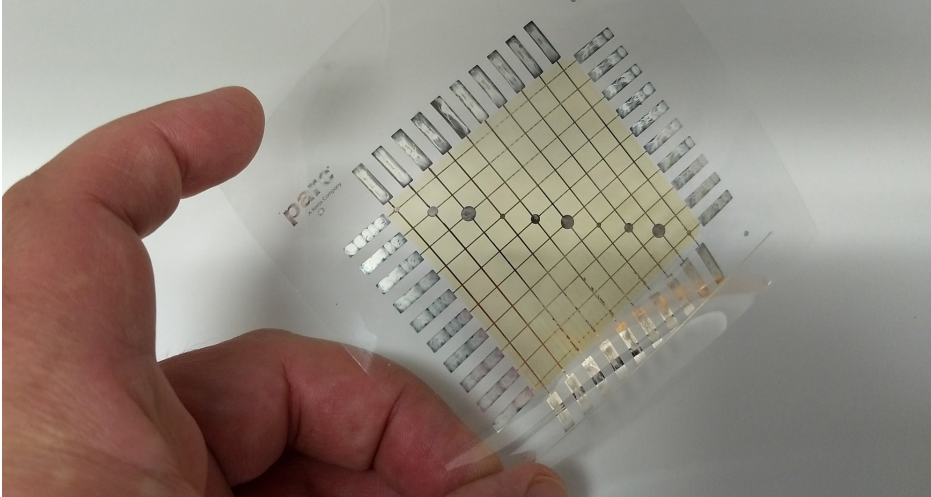


Xerox® UV Curable Dielectric



The Xerox® UV Curable Dielectric is compatible with solution-based coating and printing methods. The material cures within seconds upon exposure to LED UV light. This material has a dielectric constant suitable for use in a variety of electronics and printed electronics applications and is compatible with Xerox® Silver Nanoparticle Inks.

PRODUCT FEATURES

- UV curable; 365 & 395 nm LED UV light
- 100% solids, no solvent
- Produces uniform coated films and printed traces
- Enables reliable crossovers and embedded structural electronics
- Available as a clear or tinted material
- Excellent latency in printhead

PRODUCT PROPERTIES

Appearance:

| | |
|---------------------------|----------------------------------|
| XDI-UV1-C | Colourless (clear) |
| XDI-UV1-T | Blue (tinted) |
| Viscosity (at 65°C)..... | 9 – 13 cP·s |
| Viscosity (at 80°C) | 7 – 9 cP·s |
| Surface Tension | 31 – 34 mN/m |
| Solids Loading | 100%* |
| Cure (UV LED)..... | 395 nm, 12 W/cm ² |
| Storage..... | Ambient conditions** |
| Shelf Life.. | > 4 months from date of shipment |

* All formulation components are incorporated in the cured material

** Store away from heat and light sources

MATERIAL PERFORMANCE (POST CURE)

Typical thickness after cure:

| | |
|------------------------|-------------------------------|
| Inkjet Printing | ~10 µm |
| Spin Coating..... | 1 – 2 µm |
| Draw-down Coating..... | 35 – 55 µm (1.4 – 2.2 mil) |

| | |
|--------------------------------------|-----------|
| Dielectric Constant (at 1 kHz) | 3.5 – 5.0 |
| Dielectric Loss..... | 0.006 |
| Capacitance/Area: | |

| | |
|---------------------------|--------------------------------|
| Thickness 1 – 2 µm..... | 2 – 4 nF/cm ² |
| Thickness 35 – 55 µm..... | 0.07 – 0.20 nF/cm ² |

SAFETY AND HANDLING

Safety and handling information is available in the product Safety Data Sheet (SDS).

COMPATIBLE WITH XEROX® SILVER NANOPARTICLE INKS

| | |
|------------------------------|-----------|
| Ultrasonic Aerosol Jet®..... | xcm-nsUA1 |
| Pneumatic Aerosol Jet® | xcm-nsPA1 |
| Piezo Inkjet | xcm-nsIJ1 |

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ISO 9001:2015 Certified
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