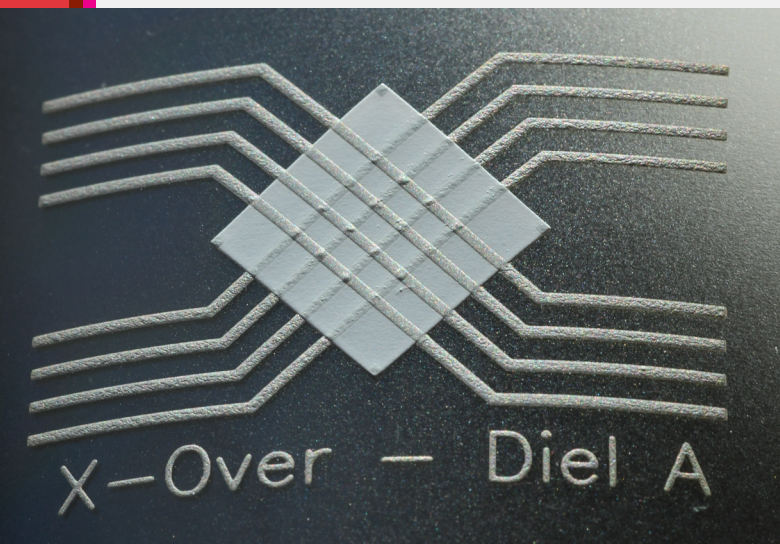




DUPONT™ ME779

CROSSOVER DIELECTRIC



PRODUCT DESCRIPTION

DuPont™ ME779 is a part of the DuPont suite of materials developed for In-Mold Electronic applications. ME779 is a solvent based crossover dielectric designed to be used in complex, stretchable multilayer circuits. It performs well in thermoformed and over-molded applications due to its unique chemistry. ME779 is high solid formulation and can be used in wide, dry process window.

PRODUCT BENEFITS

- Excellent printability with minimal pin-holing
- High dielectric insulation properties with 2-3 printed layers
- High breakdown voltage
- High elongation with minimal/no cracking after thermoforming

PROCESSING

Substrates

Polycarbonate, surface-treated polyester

Screen Printing Equipment

Reel-to-reel, semi-automatic or manual

Ink Residence Time on Screen

< 1 Hour

TYPICAL PHYSICAL & ELECTRICAL PROPERTIES

Test	Properties
Solids (%) @ 150°C	65 – 67
Viscosity (Pa·s) [Brookfield RVT #14 Spindle; 10 RPM @ 25°C]	50 – 70
Thinner	DuPont™ 3610
Coverage (cm ² /gr @ 10µm thickness)	270
Recommended total crossover thickness (µm)	>25
Dielectric Constant	20
ASTM D3359	5
Color	White

This table shows anticipated typical physical properties for DuPont™ ME779 based on specific controlled experiments in our labs and are not intended to represent the product specifications, details of which are available upon request.

Screen Types

Polyester, stainless steel

Typical Drying Conditions

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

Reel-to-reel: 120°C for 4 minutes in a well-ventilated tunnel dryer

Clean-Up Solvent

Ethylene glycol diacetate

Typical Layer Thickness

7-10µm per layer; printed with a 280-030 0.0012" stainless steel or 77- 48 (threads/inch-wire diameter) PET Screen.



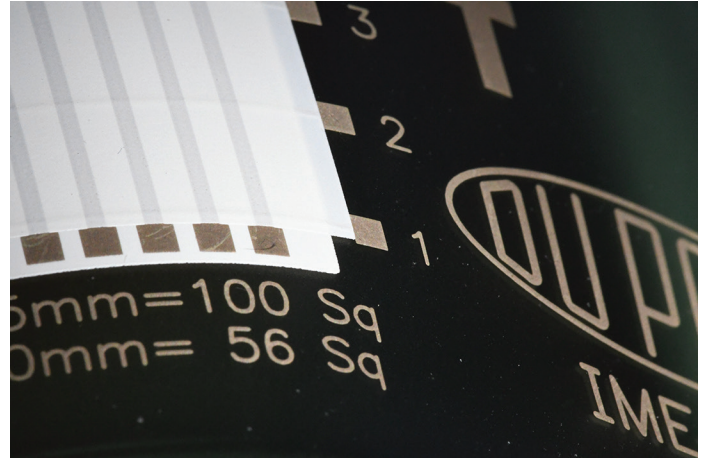
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STORAGE AND SHELF LIFE

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).



FOR MORE INFORMATION ON DUPONT™ ME779 OR OTHER DUPONT ADVANCED MATERIALS, 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.

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