



DUPONT™ ME774

CROSSOVER DIELECTRIC

PRODUCT DESCRIPTION

ME774 is part of the DuPont suite of materials developed for In Mold Electronic applications. ME774 is a UV curable crossover dielectric capable of withstanding thermoforming and overmolding temperatures. This composition is intended to be used for low elongation Capacitive Switch applications.

PRODUCT BENEFITS

- UV curable
- Thermoformable dielectric
- Injection, moldable dielectric

PROCESSING CONDITIONS

Substrates

Polycarbonate, surface-treated polyester

Screen Printing Equipment

Reel-to-reel, semi-automatic or manual

Ink Residence Time on Screen

>1 hour

Screen Types

Polyester, stainless steel

Typical UV Curing Conditions

500 – 1000mj/cm²

Typical Circuit Line Thickness

1 Micron

Printed with SD 56/36 (280mesh) stainless steel or 77 – 48 PET Screen

Clean-Up Solvent

Ethylene glycol diacetate

Table 1. Composition Properties

Test	Properties
Solids (%) @ 750°C	21.5 – 24.5
Viscosity (Pa.s) [RVT #14, 10 RPM, 25eld]	8 – 20
Color	Green
Thinner	Not Recommended
Shelf Life (months)	6

Table 2. Typical Physical Properties

Test	Properties
Dielectric Constant (at 1KHz)	-4
Dissipation Factor (Tan δ)	
Insulation Resistance (100V for 1 min)	>10 ¹⁰
Breakdown Voltage (V/25 μ m)	>1kV
Abrasion Resistance (ASTM Pencil Hardness)	>1H
Adhesion X-Hatch	No transfer
Coverage (cm ² /g)	Same as 5018

Tables 1 and 2 show anticipated typical physical properties for DuPont™ ME774 based on specific controlled experiments in our labs and are not intended to represent the product specifications, details of which are available upon request.

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 Material Safety Data Sheet (MSDS).



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FOR MORE INFORMATION ON DUPONT™ ME774 OR OTHER DUPONT MICROCIRCUIT MATERIALS, PLEASE CONTACT YOUR LOCAL REPRESENTATIVE:

Americas

DuPont Microcircuit Materials
14 TW Alexander Drive
Research Triangle Park, NC 27709
USA
Tel +1 800 284 3382 (calls within USA)
Tel +1 919 248 5188 (calls outside USA)

Europe, Middle East & Africa

Du Pont (UK) Ltd
Coldharbour Lane
Bristol BS16 1QD
UK
Tel +44 117 931 3191

Asia

Du Pont Kubushiki Kaisha
MCM Technical Lab
DuPont Electronics Center
KSP R&D B213, 2-1,
Sakado 3-chome, Takatsu-ku,
Kawasaki-shi, Kanagawa, 213-0012
Japan
Tel +81 44 820 7575

DuPont Taiwan Ltd
45, Hsing-Pont Road
Taoyuan, 330
Taiwan
Tel +886 3 377 3616

DuPont China Holding Company Ltd
Bldg. 11, 399 Keyuan Road
Zhangjiang Hi-Tech Park
Pudong New District
Shanghai 201203
Tel +86 21 3862 2888

DuPont Korea Inc.
3-5th Floor, Asia tower #726
Yeoksam-dong, Gangnam-gu
Seoul 135-719, Korea
Tel +82 2 2222 5275

E.I. DuPont India Private Limited
7th Floor, Tower C, DLF Cyber Greens
Sector-25A, DLF City, Phase-III
Gurgaon 122 002 Haryana, India
Tel +91 124 409 1818

Du Pont Company (Singapore) Pte Ltd
1 HarbourFront Place, #11-01
HarbourFront Tower One
Singapore 098633
Tel +65 6586 3022

mcm.dupont.com

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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-28967 (11/15)