



DUPONT™ ME772

PROTECTIVE DIELECTRIC

PRODUCT DESCRIPTION

ME772 is part of the DuPont suite of materials developed for In-Mold Electronics applications. ME772 is designed to be used as an under-print to provide additional mechanical and environmental protection. This composition is intended to be used for Capacitive Switch Applications. ME772 may also be used as a crossover dielectric if sufficient thickness ($\geq 20\mu\text{m}$) is achieved.

PRODUCT BENEFITS

- DuPont™ MExxx compatible
- Excellent adhesion on PC
- Good performance after thermoforming and Injection Molding
- Good moisture barrier properties

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 Drying Conditions

On polycarbonate, minimize the time between printing/drying:

Box oven: 120°C for 20 minutes

Reel-to-reel: 120°C for 4 minutes

Typical Circuit Line Thickness

6 microns

Printed with SD 56/36 (280mesh) s/steel or 61-64 PET Screen

Clean-up Solvent

Ethylene glycol diacetate

Table 1-Composition Properties

Test	Properties
Solids (%) @ 150°C	21.0 - 24.5
Viscosity (Pa.s) [Brookfield 0.5 x RVT, 10 RPM, 25°C]	20 - 50
Color	Colorless
Thinner	DuPont™ 8265
Shelf Life (months)	6

Table 2-Typical Physical Properties

Test	Properties
Dielectric Constant (at 1KHz)	4.8
Dissipation Factor (Tan δ at 28 μm)	0.022
Insulation Resistance (100V for 1min)	2.5×10^{15}
Abrasion Resistance (ASTM Pencil Hardness)	$\geq 2H$
Adhesion x-hatch	No transfer
Coverage (cm^2/g at 6 μm)	390

Tables 1 and 2 show anticipated typical physical properties for DuPont™ ME772 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 ($< 25^\circ\text{C}$). 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 (SDS).



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FOR MORE INFORMATION ON DUPONT™ ME772 OR OTHER DUPONT MICROCIRCUIT 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 ME772 (12/20)