**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

**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**
7-10 Microns
Printed with SD 56/36 (280mesh) stainless steel or 77 – 48 PET Screen

**Clean-Up Solvent**
Ethylene glycol diacetate

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**Table 1. Composition Properties**

<table>
<thead>
<tr>
<th>Test</th>
<th>Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solids (%) @ 750°C</td>
<td>21.5 – 24.5</td>
</tr>
<tr>
<td>Viscosity (Pa.s) [RVT #14, 10 RPM, 25°C]</td>
<td>8 – 20</td>
</tr>
<tr>
<td>Color</td>
<td>Green</td>
</tr>
<tr>
<td>Thinner</td>
<td>Not Recommended</td>
</tr>
<tr>
<td>Shelf Life (months)</td>
<td>6</td>
</tr>
</tbody>
</table>

**Table 2. Typical Physical Properties**

<table>
<thead>
<tr>
<th>Test</th>
<th>Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dielectric Constant (at 1kHz)</td>
<td>~4</td>
</tr>
<tr>
<td>Insulation Resistance (100V for 1 min)</td>
<td>&gt;10¹⁰</td>
</tr>
<tr>
<td>Breakdown Voltage (V/25µm)</td>
<td>&gt;1kV</td>
</tr>
<tr>
<td>Abrasion Resistance (ASTM Pencil Hardness)</td>
<td>&gt;1H</td>
</tr>
<tr>
<td>Adhesion X-Hatch</td>
<td>No transfer</td>
</tr>
<tr>
<td>Coverage (cm²/g)</td>
<td>0.6 mil [15µm] coating given by 230-mesh polyester 375</td>
</tr>
</tbody>
</table>

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).