TECHNICAL DATA SHEET

DUPONT™ ME778
CROSSOVER DIELECTRIC

PRODUCT DESCRIPTION
DuPont™ ME778 is a part of the DuPont suite of materials developed for In-Mold Electronic applications. ME778 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.

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
Poly carbonate, surface-treated polyester

Screen Printing Equipment
Reel-to-reel, semi-automatic or manual

Ink Residence Time on Screen
< 1 Hour

TYPICAL PHYSICAL & ELECTRICAL PROPERTIES

<table>
<thead>
<tr>
<th>Test</th>
<th>Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solids (%) @ 150°C</td>
<td>62 – 65</td>
</tr>
<tr>
<td>Viscosity [Brookfield RVT #14 Spindle; 10 RPM @ 25°C] (Pa-s)</td>
<td>40 – 70</td>
</tr>
<tr>
<td>Thinner</td>
<td>3610</td>
</tr>
<tr>
<td>Coverage (cm²/gr @ 10 µm thickness)</td>
<td>280</td>
</tr>
<tr>
<td>Recommended total crossover thickness (µm)</td>
<td>&gt;25</td>
</tr>
<tr>
<td>Dielectric Constant (17mm² test target)</td>
<td>18</td>
</tr>
<tr>
<td>ASTM D3359</td>
<td>5</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
</tr>
</tbody>
</table>

This table shows anticipated typical physical properties for DuPont™ ME778 based on specific controlled experiments and electrical tests in our labs and are not intended to represent the product specifications, details of which are available upon request. Coverage value based on printing with a 280-030 0.0012” stainless steel screen.

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™ ME778 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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