

Micromax™ ME780

Electronic Inks and Pastes

Protective Encapsulant

Micromax™ ME780 is a part of the Micromax™ suite of materials developed for In-Mold Electronic applications. Micromax™ ME780 is a solvent based dielectric designed to be used as a protective over-print/encapsulant.

Product benefits

- Compatible with Polycarbonate
- Flexible and Thermoformable
- Resistant to UV exposure
- Good environmental durability

Product information

Colour	Clear
Solvent or thinner	Micromax™ 3610
Solid content	33 - 38 ^[1] %
[1]: 150 °C	

Rheological properties

Viscosity	25 - 35 ^[2] Pa.s
[2]: Brookfield 0.5xRVT, #14 spindle, 10 rpm, 25 °C	

Application technique

Mask mesh	250 ^[3]
Mask emulsion	36 μm
Drying time	20 ^[4] min
Drying temperature	120 ^[4] °C
Theoretical coverage	370 ^[5] cm ² /g
Recommended film thickness, dried	11 ^[6] μm

[3]: Screen Types: Stainless steel, on PC

[4]: box oven

[5]: at 10 μm thickness, based on printing with a 280-030 0.0012 stainless steel screen

[6]: per layer, 250-36 stainless steel, on PC

Storage and stability

Shelf life	6 ^[7] months
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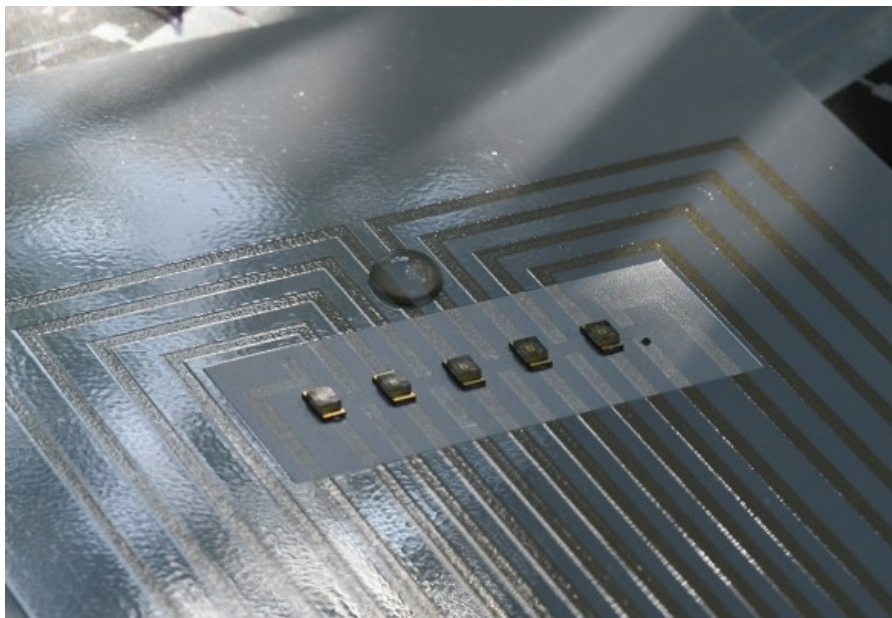
[7]: in unopened containers, from date of shipment, at temperature <25 °C

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Additional information

How to use



Processing

- **Substrates**
 - Polycarbonate, surface-treated polyester
- **Screen types**
 - Polyester, stainless steel
- **Printing**
 - Reel-to-reel, semi-automatic or manual
- **Typical layer thickness**
 - 11 µm per layer
 - Printed with 250-36 stainless steel screen on PC.
- **Work life**
 - < 1 hour
- **Clean-up solvent**
 - Ethylene glycol diacetate
- **Drying**
 - 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

Properties

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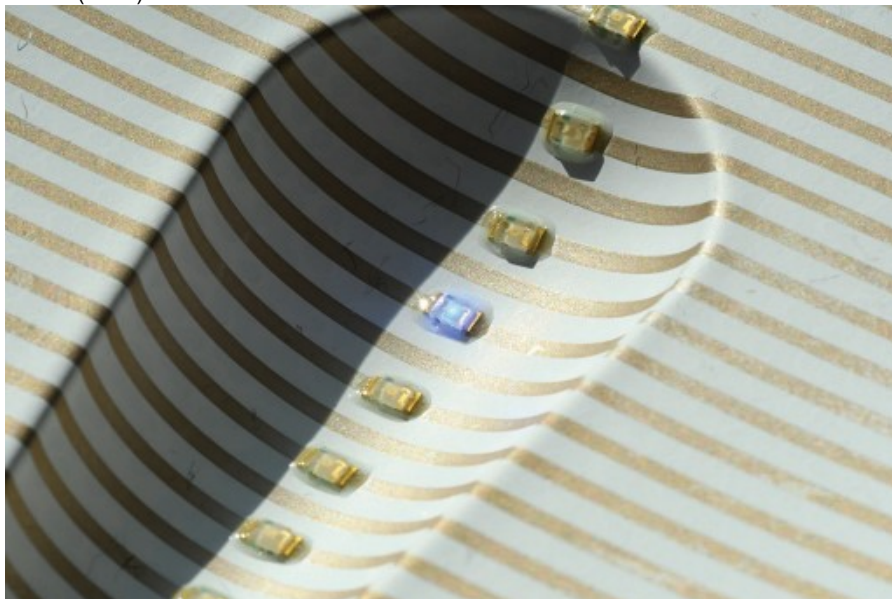
- Information in this datasheet shows anticipated typical physical properties for Micromax™ ME780 based on specific controlled experiments in our labs and are not intended to represent the product specifications, details of which are available upon request. Coverage value based on printing with a 280-030 (0.0012" wire diameter) stainless steel screen.

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 Safety Data Sheet (SDS).



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