

Micromax™ PE311D

Electronic Inks and Pastes

Silver Conductor

Micromax™ PE311D is a low temperature drying silver conductor with good bending properties, screen life, and fine line printing ability.

Product benefits

- Low drying temperature, curable as low as 65°C
- Good crease resistance stability
- Good screen-printing line definition
- Good screen life

Product information

Solvent or thinner	Micromax™ 8210
Solid content	65 - 75 ^[1] %
[1]: 150°C	

Rheological properties

Viscosity	17 - 23 ^[2] Pa.s
[2]: Brookfield RVT, #14 spindle, 10 rpm, 25°C	

Application technique

Mask mesh	325 ^[3]
Drying time	15 min
Drying temperature	130 °C
Recommended film thickness, dried	5 - 11 ^[4] μm
[3]: Screen Types: Stainless steel	
[4]: 325-mesh stainless steel screen	

Electrical properties

Surface resistivity	≤25 ^[5] mOhm per square
[5]: at 25μm, 5μm dried print thickness on ST505 PET film	

Storage and stability

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

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Additional information

How to use

Processing

- **Substrates**
 - Polycarbonate, polyethylene terephthalate, polyester, polyimide
- **Screen types**
 - Stainless steel, polyester
- **Typical thickness**
 - Printed with 325-mesh stainless steel screen
 - 5 - 11 μm
- **Clean-up solvent**
 - Ethylene diacetate or Methyl propasol acetate
- **Drying**
 - 65°C for 1 hour
 - 130°C for 15 minutes

Properties

- Information in this datasheet shows anticipated typical physical properties for Micromax™ PE311D 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 Safety Data Sheet (SDS).

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