

Micromax™ HT702

Electronic Inks and Pastes

Polyimide Encapsulant/Dielectric

Micromax™ HT702 is a screen printable and nozzle dispensable polyimide x-over/encapsulant dielectric. This composition is particularly suited for applications where high operating temperatures and high chemical resistance are required.

Product benefits

- Excellent thermal resistance (solder resistance)
- Excellent chemical resistance to common solvents
- Excellent adhesion to a variety of substrates
- High dielectric strength (BDV > 0.5kV)
- Good flexibility
- Compatible with Micromax™ HT802 conductor and Micromax™ HT603/602 resistor

**Thermal/Chemical stability varies depending on operating temperature/time*

Product information

Colour	White
Solvent or thinner	Micromax™ 8246
Solid content	40 - 44 ^[1] %
[1]: 180 °C, 3 hr	

Rheological properties

Viscosity	20 - 35 ^[2] Pa.s
[2]: Brookfield RVT, #14 spindle, 10 rpm, 25 °C	

Application technique

Mask mesh	200
Drying time	30 - 60 ^[3] min
Drying temperature	140 - 150 ^[3] °C
Theoretical coverage	313 ^[4] cm ² /g
Recommended film thickness, dried	8 - 12 µm
[3]: box oven	
[4]: at 10µm thickness	

Typical mechanical properties

Adhesion, cross hatch	5B ^[5] class
[5]: ASTM D3359-78	

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Electrical properties

Dielectric Constant
Breakdown Voltage

$\leq 5^{[6]}$
 $\geq 500^{[7]}$ V

[6]: at 1 KHz

[7]: at 25.4µm, DC

Storage and stability

Shelf life

6^[8] months

[8]: in unopened containers, from date of shipment, at temperature <25 °C

Additional information

How to use

Processing

- **Substrates**
 - Kapton™ FPC, Pyralux® PI Cu Clad, Aluminum, Stainless steel
- **Screen types**
 - 200-mesh stainless steel
- **Typical thickness (after drying)**
 - 8 - 12 µm
- **Drying**
 - Box oven : 140-150 °C for 30-60 minutes in a well-ventilated oven
 - Reel to reel : 140-150 °C for 3-5 minutes

Properties

- Information in this datasheet shows anticipated typical physical properties for Micromax™ HT702 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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Page: 3 of 3

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