Micromax™ 7082M

Electronic Inks and Pastes

Carbon Conductor

Micromax™ 7082M carbon conductor may be used as a polymer thick film resistor. It can also function as a conductor in designs that tolerate high resistivity. Its major benefits include low cost and excellent screen life. It can be used with semiautomatic and manual printers. Micromax™ 7082M carbon conductor has been designed for applications requiring small resistance changes.

Product benefits

- High resistance
- Lead, Cadmium, Nickel and Phthalate free*

* Lead, Cadmium, Nickel and Phthalate 'free' as used herein means that lead, cadmium, nickel and phthalate are not intentional ingredients in and are not intentionally added to the referenced product. Trace amount however may be present.

Product information

Solvent or thinner	Micromax™ 8210

Application technique

Mask mesh	200[1]	
Drying time	30	min
Drying temperature	120	°C
Shrinkage, dried	5 - 10[2]	%

[1]: Screen Types: Stainless steel

[2]: printed with 200 mesh stainless steel screen

Typical mechanical properties

Adhesion, pull tape	no material transfer[3]	class

[3]: 3M Scotch Tape #600

Electrical properties

Surface resistivity	7E8[4]	mOhm per square

[4]: At 25.4µm, in the case of at 10.16µm 1.7 kΩ/sq.

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Storage and stability

Shelf life	6[5] months

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

Additional information

How to use

Processing

- Screen types
  - Polyester, stainless steel
- Printing
  - Semiautomatic or manual
- Typical circuit line thickness
  - 5 - 10 µm
  - Printed with 200-mesh stainless steel screen
- Clean-up solvent
  - Ethylene glycol diacetate
- Drying
  - Box oven : 120 °C for 30 minutes

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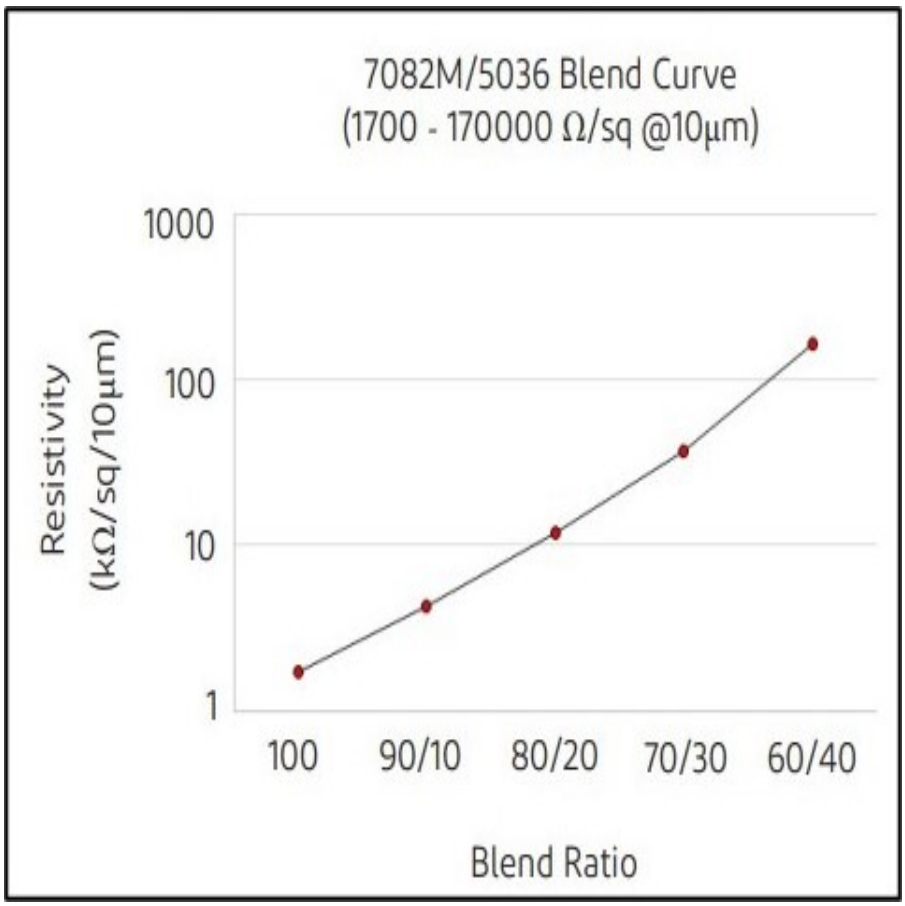

Properties

- Information in this datasheet shows anticipated typical physical properties for Micromax™ 7082M 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.

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Safety and handling

For Safety and Handling information pertaining to this product, read the material Safety Data Sheet (SDS).

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