Celanese
The chemistry inside innovation™

Micromax™ 7780

Microcircuit and Component Materials

Termination for Trimmers/Potentiometers

Specially developed for trimmer/potentiometer application, Micromax™ 7780 is a silver/platinum termination that meets the needs of low cost and high performances.

Product characteristics

- High resolution screen printing
- High green strength
- 850°C/60min. firing
- No Staining
- Good solderability
- High solder leach resistance
- High aged adhesion
- Cadmium, Nickel and Phthalate free*
- Low cost material

*Cadmium, Nickel and Phthalate 'free' as used herein means that 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™ 8250

Rheological properties

Viscosity	80 - 150[1]	Pa.s

[1]: Brookfield HBT, UC&S, 10 rpm, 25°C±1°C

Application technique

Mask mesh	250	
Mask emulsion	15	µm
Drying time	10	min
Drying temperature	150	°C
Recommended film thickness, dried	20 - 25	µm
Leveling time	5 - 10	min

Storage and stability

Shelf life	6[2]	months

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

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Additional information

How to use

Processing

- Substrates
  - Reported properties are based on tests with 96% alumina substrates.
  - Substrates of other compositions may yield variations in performance properties.
- Printing
  - Properties are based on Micromax™ 7780 printed to 20-25µm dried print thickness using 250 mesh stainless steel screen with an emulsion thickness of approximately 15µm.
- Thinning
  - Micromax™ 7780 is optimized for screen printing and thinning is not normally required. For minor adjustments, Micromax™ thinner 8250 is recommended.
- Clean-up solvent
  - While traditional screen cleaners work with Micromax™ 7780, Axarel® 2200, a non CFC alternative, is recommended.
- Drying
  - Prints should be allowed to level at room temperature for 5-10 minutes and then dried for 10 minutes at 150°C.
- Firing
  - Properties are based on a 60 minute firing cycle with 10 minutes at a peak of 850°C.

Properties

- The information given herein is based on data believed to be reliable, but the Micromax™ company makes no warranties expressed or implied as to its accuracy and assumes no liability arising out of its use by others. This publication is not be taken as a license to operate under, or recommendation to infringe upon, any patents.

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 Safety Data Sheet (SDS).

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