

Micromax™ 5450H

Electronic Inks and Pastes

Platable Edge C2 Termination For Chip Resistors, Chip Components Applications

Especially developed for chip resistor applications, Micromax™ 5450H is a polymeric platable silver C2 edge termination that can meet the needs of lower cost and high yield maintaining high performances over fired type C2 edge termination.

Product benefits

- Thermoset type of resin
- Single composition type
- Low temperature curing (200 °C, 30 min.)
- High plated adhesion
- Stable viscosity / rheology
- Good platability
- Good conductivity
- 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™ 9245

Rheological properties

Viscosity 35 - 40^[1] Pa.s

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

Application technique

Drying time 10 min

Drying temperature 150 °C

Leveling time 5 - 10 min

Storage and stability

Shelf life 3^[2] months

[2]: in unopened containers, from date of shipment, refrigerated (0 to 4 °C), at (-15 to -20 °C) will further prolong

Additional information

How to use

Processing

- **Substrates**

- Reported properties are based on test with 96% alumina substrates. Substrates of other compositions may yield variations

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in performance properties.

- **Printing**
 - Paste rheology of Micromax™ 5450H is designed for screen printing application.
 - Micromax™ 5450H is optimized for screen printing and thinning is not normally required. For minor adjustments, use the Micromax™ recommended thinner.
- **Drying**
 - A drying step prior to curing is recommended. Parts should be allowed to level at room temperature and then dried.
- **Curing**
 - Properties are based on a curing cycle with 30 minutes at peak of 200°C.

Storage and shelf life

Shelf life is three months from date of shipment, when refrigerated (0 to 4°C). Storage at (-15 to -20°C) will further prolong shelf life. Storage at room temperature is not recommended. Gradual polymerization and associated viscosity increase, and mechanical separation can be expected over a period of a few months. When refrigerating and / or freezing conditions are used for storage, materials should be allowed to equilibrate to room temperature before opening to prevent pick up of moisture from condensation.

After the containers are opened, use and storage conditions and the possible effects of contamination make shelf life limits unpredictable.

Safety and handling

For safety and handling information pertaining to this product, read Safety Data Sheet (SDS).