

Micromax™ 5450T

Electronic Inks and Pastes

Platable Edge C2 Termination

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

Product benefits

- Low temperature curing (200 °C, 30 min.)
- High plated adhesion
- Good dipping performance
- Stable viscosity / rheology
- Good platability
- Good conductivity
- Cadmium, Lead, Nickel and Phthalate free*

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

Product information

Solvent or thinner	Micromax™ 9245
Solid content	70 - 73 ^[1] %
[1]: 750 °C	

Rheological properties

Viscosity	15 - 20 ^[2] Pa.s
[2]: Brookfield RVT, SC4-14/6R, 10 rpm, 25 °C	

Application technique

Drying time	10 min
Drying temperature	150 °C
Leveling time	5 - 10 min

Storage and stability

Shelf life	3 ^[3] months
[3]: in unopened containers, from date of shipment, at temperature between 0-5 °C	

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Additional information

How to use

Processing

- **Substrates**
 - Reported properties are based on test with 96% alumina substrates. Substrates of other compositions may yield variations in performance properties.
- **Dipping**
 - Paste rheology of Micromax™ 5450T is designed for dipping application.
- **Thinning**
 - Micromax™ 5450T is optimized for dipping. Thinner is normally not required. Use the Micromax™ recommended thinner for slight adjustments to viscosity or to replace evaporation losses. The use of too much thinner or the use of a non recommended thinner may affect the rheological behavior of the material.
- **Drying**
 - Dipped parts should be allowed to level at room temperature for 5-10 minutes and then dried at 150°C for 10 minutes.
- **Curing**
 - Properties are based on a curing cycle with 30 minutes at peak of 200°C.

Properties

- Information in this datasheet shows anticipated typical physical properties for Micromax™ 5450T 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

Shelf life is three months from date of shipment when refrigerated (0-5°C). 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 limits unpredictable.

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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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