

Micromax™ 5450T

Electronic Inks & Pastes

PRODUCT DESCRIPTION

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.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

PRODUCT INFORMATION

General Properties	Value Unit
Application	Resistor termination
Solvent or thinner	Micromax™ 9245
Solid content ¹	70 to 73 %

TECHNICAL DATA

Rheological Properties	Value Unit
Viscosity ²	15 to 20 Pa.s

Application Technique	Value	Unit
Drying time	10	min
Drying temperature	150	°C
Leveling time	5 to 10	min

Storage and Stability	Value	Unit
Shelf life ³	3	months

¹750°C

²Brookfield RVT, SC4-14/6R, 10 rpm, 25°C

³in unopened containers, from date of shipment, stable environment at refrigerated temperature between 0°C - 5°C

PROCESSING GUIDELINES

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

Containers should be stored, tightly sealed, in a clean, stable environment at refrigerated temperature between 0°C - 5°C. Storage at room temperature is not recommended. Shelf life of

material in unopened containers is 3 months from date of shipment. Gradual polymerization and associated viscosity increase, and mechanical separation can be expected over a period of a few months. When refrigerating 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.

Storage conditions on the product data sheets are intended to represent long-term material storage recommendations and not a shipping or temperature-at-receipt requirement.

Transportation: Under normal shipping conditions, without temperature control, Micromax™ products are not expected to exhibit a change in quality or fitness for use. Should extraordinary events result in extended transportation periods, Micromax™ recommends customers confirm products remain suitable for the intended application.

SAFETY & WARNING

It is recommended that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use.

Safety Data Sheets are available.

WASTE TREATMENT

Prior to using any recommendations or suggestions for waste treatment, the user is required to know the appropriate local/state/federal regulations for on-site or off-site treatment which may require permits. If there is any conflict regarding our recommendations, local/state/federal regulations take precedence.

CONTACT INFORMATION

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Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product. READ IT THOROUGHLY PRIOR TO PRODUCT USE. Emergency safety directory assistance: US 1 202 464 2554, Europe + 44 1235 239 670, Asia + 65 3158 1074, Brazil 0800 707 7022 and 0800 172 020, Mexico 01800 002 1400 and (55) 5559 1588

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