

Micromax™ 5450H

Electronic Inks & Pastes

PRODUCT DESCRIPTION

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.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

PRODUCT INFORMATION

General Properties	Value Unit
Application	Resistor termination
Solvent or thinner	Micromax™ 9245

TECHNICAL DATA

Rheological Properties	Value Unit
Viscosity ¹	35 to 40 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 ²	3	months

¹Brookfield RVR, UC&S, 10rpm, 25°C

²in 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.

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

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 and handling

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

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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