Micromax™ 0001B

Electronic Inks & Pastes

Created: Aug 24, 2026

Product Information

Resistor Composition

Designed to give high productivity and high quality, Micromax™ 0001B has been specifically developed for Chip Resistor applications. It also meets the market need for low-cost manufacturing.

Product benefits
- Designed to give high power performance at low thickness
- Excellent blend ability for low resistivity application
- Improved green strength
- Cadmium, Nickel and Phthalate free*

*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	Value	Unit
Application	Chip resistor	
Solvent or thinner	Micromax™ 8250(T)	

Rheological properties	Value	Unit
Viscosity	80 - 180[1]	Pa.s

Application technique	Value	Unit
Drying time	10	min
Drying temperature	150	°C
Recommended film thickness, dried	18 - 22	µm

Electrical properties	Value	Unit
Resistivity	0.85 - 1.15[2]	Ohm per square
Hot Temperature Coefficient Resistance	-200 - 200[3]	ppm/°C
Cold Temperature Coefficient Resistance	-200 - 200[4]	ppm/°C

Storage and stability	Value	Unit
Shelf life	6[5]	months

1: Brookfield HBT, SC4-14/6R, @10rpm, 25 °C
2: 25°C@dried 20µm, Resistor geometry is 500 sq.
3: Hot TCR (ppm/°C) 25 to 125 °C , Resistor geometry is 500sq.

4: Cold TCR (ppm/°C) -55 to 25 °C , Resistor geometry is 500sq.
5: in unopened containers, from date of shipment, stable environment at room temperature between 5°C - 30°C

How to use

- **Terminations**
  - Micromax™ 0001B is designed for use with high silver-containing terminations. Reported properties were obtained using Micromax™ 5426 Ag/Pd termination.
- **Substrates**
  - Properties are based on tests with 96% alumina substrates.
- **Printing**
  - The composition should be thoroughly mixed before use. This is best achieved by slow, gentle, hand-stirring with a clean burr-free spatula (flexible plastic or stainless steel) for 1-2 minutes. Care must be taken to avoid air entrapment. Printing should be performed in a clean and well-ventilated area.
  - Note: Optimum printing characteristics are generally achieved in the room temperature range of 20 °C - 23 °C. It is therefore important that the material, in its container, is at this temperature prior to commencement of printing.
- **Thinning**
  - The composition is optimized for screen printing. Thinner is normally not required. Use the 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 and its printing characteristics.
- **Drying**
  - Allow prints to level at room temperature. Then dry in a well-ventilated oven or conveyor dryer.
- **Firing**
  - Firing 850 °C peak held for 10 minutes on 30 minutes firing cycle
  - Fire in a well-ventilated belt, conveyor furnace, or static furnace. Air flows and extraction rates should be optimized to ensure that oxidizing conditions exist within the muffle, and that no exhaust gases enter the room.

Properties

- Information in this datasheet shows anticipated typical physical properties for Micromax™ 0001B based on specific controlled experiments in our labs and are not intended to represent the product specifications, details of which are available upon request.

General

Performance will depend to a large degree on care exercised in screen printing. Scrupulous care should be taken to keep the composition, printing screens and other tools free of metal contamination. Dust, lint and other particulate matter may also contribute to poor yields.

Storage and shelf life

- Containers should be stored, tightly sealed, in a clean, stable environment at room temperature between 5°C - 30°C. Shelf life of material in unopened containers is 6 months from date of shipment. Some settling of solids may occur and compositions should be thoroughly mixed prior to use.

Created: 2026-08-24
Source: Micromax Material Data Center

- 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.

Disclaimer

Created: 2026-08-24
Source: Micromax Material Data Center