

Micromax™ 0001B

Electronic Inks & Pastes

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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.

- 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

NOTICE TO USERS: Values shown are based on testing of laboratory test specimens and represent data that fall within the standard range of properties for natural material. These values alone do not represent a sufficient basis for any part design and are not intended for use in establishing maximum, minimum, or ranges of values for specification purposes. Colourants or other additives may cause significant variations in data values. Properties of moulded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design, processing conditions and environmental exposure. Other than those products expressly identified as medical grade (including by MT® product designation or otherwise), Micromax's products are not intended for use in medical or dental implants. Regardless of any such product designation, any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use. To the best of our knowledge, the information contained in this publication is accurate; however, we do not assume any liability whatsoever for the accuracy and completeness of such information. The information contained in this publication should not be construed as a promise or guarantee of specific properties of our products. It is the sole responsibility of the users to investigate whether any existing patents are infringed by the use of the materials mentioned in this publication. Moreover, there is a need to reduce human exposure to many materials to the lowest practical limits in view of possible adverse effects. To the extent that any hazards may have been mentioned in this publication, we neither suggest nor guarantee that such hazards are the only ones that exist. We recommend that persons intending to rely on any recommendation or to use any equipment, processing technique or material mentioned in this publication should satisfy themselves that they can meet all applicable safety and health standards. We strongly recommend that users seek and adhere to the manufacturer's current instructions for handling each material they use, and entrust the handling of such material to adequately trained personnel only. Please call the telephone numbers listed for additional technical information. Call Customer Services for the appropriate Materials Safety Data Sheets (MSDS) before attempting to process our products. Copyright © 2025 Micromax or its affiliates. All rights reserved. Micromax™, and all other trademarks identified herein with ®, ™, SM, unless otherwise noted, are trademarks of Micromax or its affiliates.

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