

Micromax™ 5738R

Electronic Inks & Pastes

PRODUCT DESCRIPTION

Au Co-fire Via Fill Composition

Micromax™ 5738R cofirable Au conductor is part of the Micromax™ GreenTape™ 951 low temperature co-fired ceramic system. It has been designed to provide reliable connections between recommended Au conductor layers.

Product benefits

When used with Micromax™ GreenTape™ 951 and compatible conductor pastes:

- Co-fire processing
- High conductivity
- High circuit density
- Phthalate, Cadmium, Nickel oxide free*

*Phthalate, Cadmium and Nickel oxide 'free' as used herein means that cadmium, phthalate and nickel oxide 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	Gold conductor
Solvent or thinner	Micromax™ 9450

TECHNICAL DATA

Rheological Properties	Value Unit
Viscosity ¹	5800 to 7300 Pa.s

Application Technique	Value Unit
Mask emulsion ²	20 to 25 µm
Drying time	5 min

Application Technique	Value	Unit
Drying temperature	120	°C
Leveling time	5 to 10	min
Storage and Stability	Value	Unit
Shelf life ³	6	months

¹Brookfield HBT, UC&S, SC4-14/6R, 1 rpm, 25°C ± 0.2°C

²Screen Types: Metal stencil

³in unopened containers, from date of shipment, stable environment at room temperature between 5°C - 30°C

PROCESSING GUIDELINES

Design & compatibility

Design

Recommended processing procedure for Micromax™ GreenTape™ 951 are detailed in the 951 low-temperature cofire dielectric tape technical data sheet. For compatible thick films compositions, consult your Micromax™ representative.

Screen types

20-25µm thick etched or punched metal stencil, with a squeegee speed as low as 10mm/s.

Clean-up solvent

1-Propoxy-2-Propanol

Drying

Allow prints to level for over 5-10 minutes at room temperature, then dry for 5 minutes at 120°C. Do not over-dry.

Firing

Consult Micromax™ GreenTape™ 951 technical data sheet.

Properties

All values reported here are results of experiments in our laboratories intended to illustrate product performance potential with a given experimental design. They are not intended to represent the product's specifications, details of which are available upon demand.

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.

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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