

Micromax™ 5056

Electronic Inks & Pastes

PRODUCT DESCRIPTION

Bendable, White Reflector Paste

Micromax™ polymeric composition 5056 is solvent-based, screen-printable ink used applications which require a flexible, reflective solder mask after curing. It offers the advantages of rapid-curing while maintaining adhesion to both copper clad substrates and conductors. Solder mask processing conditions will vary depending on equipment used. A general recommendation would be to cure as directed below at 130-150°C.

Micromax™ 5056 is ideally suited for LED applications on flexible Coolam® as well as other substrates. A thickness of 25µm is recommended.

Product benefits

- Will not crack after curing on flexible Coolam®
- Maintains white color during and after processing for better reflectivity

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

PRODUCT INFORMATION

General Properties	Value	Unit
Application	Membrane switch dielectric	
Color	White	
Solvent or thinner	Micromax™ 8260	
Density	1.35	g/cm ³
Solid content ¹	48 to 53	%
Maximum Service Temperature ²	120	°C

TECHNICAL DATA

Rheological Properties		Value	Unit
Viscosity ³		45 to 85	Pa.s
Application Technique		Value	Unit
Mask mesh		200 to 325	
Drying time		5 to 10	min
Drying temperature		130 to 150	°C
Recommended film thickness		12.7 to 25.4	µm
Mechanical Properties		Value	Unit
Adhesion ⁴		5B	class
Storage and Stability		Value	Unit
Shelf life ⁵		6	months

¹150°C

²dependent on conductor

³Brookfield RVT, 10 rpm, #14 spindle, 25°C

⁴Dielectric to Polyester Scotch Tape #600, ASTM D2259-78.

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

PROCESSING GUIDELINES

Substrates

Polyester, polyimide, epoxy glass

Screen types

Stainless steel, polyester

Printing

Semiautomatic and manual

Typical thickness (after cure)

Printed with 200 - 325-mesh stainless steel screen

0.5 - 1.0 mil

Work life

> 2 hours

Clean-up solvent

Methyl propyl acetate

Drying

130°C - 150°C / 5 - 10 minute

Dry and cure in a well-ventilated oven or conveyor dryer where the exhaust meets environmental regulations.

Typical Physical Properties on Flexible CoolLam®

Test	Properties
Abrasion Resistance, Pencil Hardness (ASTM D3363-74) [H]	≥ 1
Flexibility (45° bend)	No cracking

Information in this datasheet shows anticipated typical physical properties for Micromax™ 5056 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 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 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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