

MicromaxTM QM35

Electronic Inks and Pastes

Via Fill Conductor

MicromaxTM QM35 is silver/platinum via fill for use with MicromaxTM QM44, MicromaxTM QM42 and Diffusion Patterning Multilayer Systems. It is recommended as a top layer via fill for gold to silver bearing interconnections. Not recommended for stacked vias (see MicromaxTM QM34 data sheet).

Product benefits

- Reliable connection between gold and silver bearing conductors
- One Step via fill
- Cofireable with dielectric layers and conductors.

Product information

Solvent or thinner Micromax™ 7502

Rheological properties

Viscosity 60 - 100^[1] Pa.s

[1]: Brookfield HBT, UC&SP, 50 rpm, 25°C

Application technique

Mask mesh	325	
Mask emulsion	12.5	μm
Drying time	10 - 15	min
Drying temperature	150	°C
Via, diameter resolution	125 - 500	μm
Leveling time	5 - 10	min

Electrical properties

Surface resistivity 0.8 - 2.5^[2] mOhm per square

[2]: at 25 μm fired thickness

Storage and stability

Shelf life 6^[3] months

[3]: in unopened containers, from date of shipment, at temperature <25°C

Printed: 2023-09-21 Page: 1 of 3

Revised: 2023-07-10 Source: Celanese Materials Database



MicromaxTM QM35

Electronic Inks and Pastes

Additional information

How to use

Processing

Substrates

 Properties are based on tests on 96% alumina substrates.
Substrates of other compositions and from various manufacturers may result in variations in performance properties.

Printing

 Screen-print with a 325-mesh, stainless steel screen with a 12.5µm emulsion thickness.

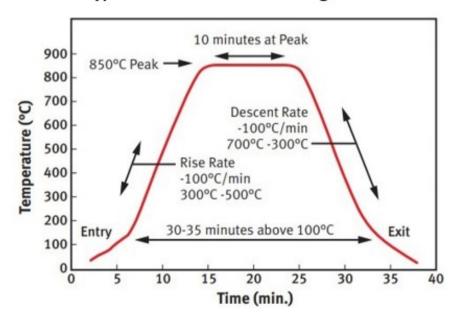
Drying

 Allow prints to level for 5-10 minutes at room temperature. Then dry for 10-15 minutes at 150°C.

Firing

 Fire in a well ventilated moving conveyor furnace, in air with a 30-minute cycle, to peak temperature of 850°C.

Typical 850°C 30 Minute Firing Profile



Properties

Typical Physical & Composition Properties

Printed: 2023-09-21 Page: 2 of 3



MicromaxTM QM35

Electronic Inks and Pastes

Test	Properties
Planarity (µm)	5 - 10
Coverage (vias/g) 300µm diameter vias	61000

Information in this datasheet shows anticipated typical physical properties for MicromaxTM QM35 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 (<25°C). Shelf life of material in unopened containers is six months from date of shipment. Some settling of solids may occur and compositions should be thoroughly mixed prior to use.

Safetly and handling

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

Printed: 2023-09-21 Page: 3 of 3

Revised: 2023-07-10 Source: Celanese Materials Database

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 conditions and environmental exposure. Other than those products expressly identified as medical grade (including by MT® product designation or otherwise), Celanese'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, 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 manufac

© 2023 Celanese or its affiliates. All rights reserved. Celanese®, registered C-ball design and all other trademarks identified herein with ®, TM, SM, unless otherwise noted, are trademarks of Celanese or its affiliates. Fortron is a registered trademark of Fortron Industries LLC. KEPITAL is a registered trademark of Korea Engineering Plastics Company, Ltd.