Micromax™ 3571

Electronic Inks and Pastes

Blend Member/Dielectric

Polymeric composition Micromax™ 3571 may be used as a blend member with Micromax™ 7082M and Micromax™ 7102 to achieve higher resistance values than Micromax™ 7082M or Micromax™ 7102 alone.

Product benefits

- Blendable with Micromax™ 7102 and Micromax™ 7082M carbon conductors

Product information

Solvent or thinner	Micromax™ 3610	
Density	1.09	g/cm^3
Solid content	19 - 21[1]	%
Maximum Service Temperature	90[2]	°C

[1]: 150°C

[2]: on Polyester Film, dependent on conductor

Rheological properties

Viscosity	1.9 - 3[3]	Pa.s

[3]: Brookfield LVT, 6 rpm #2 spindle, 25°C

Application technique

Mask mesh	200 - 325[4]	
Drying time	5	min
Drying temperature	120 - 130	°C
Theoretical coverage	290[5]	cm²/g
Recommended film thickness, dried	12.7 - 25.4	µm

[4]: Screen Types: Stainless steel

[5]: 25.4µm coating given by 280-mesh stainless steel

Typical mechanical properties

Adhesion, cross hatch	5B[6]	class

[6]: Dielectric to Polyester Scotch Tape #600 Conductor to Dielectric, ASTM D3359-78.

Storage and stability

Shelf life	12[7]	months

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

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Additional information

How to use

Processing

- Substrates
  - Polyester, polyimide, epoxy glass
- Printing
  - Semiautomatic and manual
- Typical thickness (after cure)
  - Printed with 200 - 325mesh stainless steel screen
  - 12.7 - 25.4 µm
- Work life
  - > 2 hours
- Drying
  - 120 - 130°C/5 minutes

Properties

Typical Physical & Electrical Properties on Polyester Film & Composition Properties

Test	Properties
Abrasion Resistance, Pencil Hardness (ASTM D3363-74) [H]	≥ 1
Flexibility (180° crease over Micromax™ 5007)	No opens
Coverage (cm^2/g) (Dependent on print thickness) 0.45 mil coating given by 280-mesh polyester	500
Coverage (cm^2/g) (Dependent on print thickness) 0.6 mil coating given by 230-mesh polyester	375
Coverage (cm^2/g) (Dependent on print thickness) 1.1 mil coating given by 200-mesh stainless steel	240

Information in this datasheet shows anticipated typical physical properties for Micromax™ 3571 based on specific controlled experiments in our labs and are not intended to represent the product specifications, details of which are available upon request.

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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 twelve months from date of shipment. Some settling of solids may occur and compositions should be thoroughly mixed prior to use.

Safety and handling

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