Celanese
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Micromax™ 7380G

Microcircuit and Component Materials

Silver Conductor

Micromax™ 7380G silver conductor is designed for use with Ca/Sm/Al ceramic bodies and others. It's used on high frequency dielectric waveguide filters and other similar components. It is formulated to be applied to ceramic components by screen printing.

Product benefits

- Uniform coating with good coverage
- High Q or low insertion loss
- Dense fired film and low resistivity
- Compatible for laser ablation process
- Excellent solderability
- Excellent adhesion
- High reliability
- Lead, Cadmium, Nickel and Phthalate free*

* Lead, Cadmium, Nickel and Phthalate 'free' as used herein means that lead, 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

Solvent or thinner	Micromax™ 4553	
Solid content	82.4 - 84.4[1]	%

[1]: 750 °C

Rheological properties

Viscosity	260 - 340[2]	Pa.s

[2]: Brookfield 2xHAT, UC&S, 10 rpm

Application technique

Mask mesh	250 - 325	
Drying time	10 - 15	min
Drying temperature	150	°C
Leveling time	5 - 10	min

Electrical properties

Surface resistivity	≤1.7[3]	mOhm per square

[3]: at 12µm fired thickness

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Storage and stability

Shelf life	6[4] months

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

Additional information

How to use

Processing

- Printing
  - 250-325 mesh stainless steel screen.
- Drying
  - Allow wet thick films to level for 5-10 minutes at room temperature and dry for 10-15 minutes at 150°C.
- Firing
  - Dried thick films should be fired in a belt furnace. A total cycle time of approximately 1 hour with approximately 10 minutes at peak temperature of 900°C is recommended.

Properties

- Information in this datasheet shows anticipated typical physical properties for Micromax™ 7380G 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.

Safety and handling

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

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