

Technical Data Sheet

4443

Fugitive Ink Composition
Material # 1431573

Developmental Material



Product Description

4443 Fugitive Ink Composition is a paste composition that burns out cleanly at 850°C. This paste can be used to form channels in multi-layer tape structures or when mixed with other inks increase the porosity.

4443 is formulated to be Lead free, Cadmium free and Phthalate* free. The term “free” means that Lead, Cadmium and Phthalate* have not been intentionally added to the product. However, trace amounts may be present.

*Phthalates listed in Annex XIV of REACH

The 4443 is an experimental material, typical properties reported are based on a limited data set and are subject to change.

Intended Applications:

The intended applications for the 4443 are sensor applications and all other applications that require the properties that are present.

Typical Properties

Rheology: Pseudoplastic, screen/stencil printable paste

Viscosity: 700±300 Pa*s at 25.5°C±0.5°C when measured using a Brookfield RVT viscometer and an ABZ spindle at 10 RPM.

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Storage and Shelf Life: This product should be stored in tightly sealed containers at 20°C to 25°C, in a dry place away from direct sunlight. The shelf life of a factory sealed container is a minimum 6 months from date of shipment when properly stored.

Typical Processing Recommendations

Printing: 325 to 200 mesh stainless steel screen or stencil

Leveling Time: 5 to 10 minutes

Drying at 60°C to 80°C: 5 to 30 minutes

Firing: The firing profile is dependent upon the tape structure that contains the 4443.

Thinner: 413 (Material # 1148606)

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