Metalon® Conductive Inks for Printed Electronics

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Metalon® HPS-FG32

Silver Screen Ink

Particle: 1.5 micron silver flake
Substrates: Paper, plastics, glass, metals, fabrics
Features: Solderable, flexible, excellent water resistance
Printable on permeable substrates and textiles, resistant to wash cycles
Adheres well to TPU inlays

Thermal cure data:

Substrate	Cure Temperature (°C)	Cure Time (minutes)	Sheet Resistance (mΩ/sq)[1]	Weight Resistivity (Ω-g/m²)	Volume Resistivity[2] (μΩ-cm)	Sheet Resistivity[3] (mΩ/sq/mil)
Melinex ST505	120	30	25	1.25	23.8	10
	140	10	25	1.25	23.8	9
Polyimide	175	5	23	1.15	21.9	9
	200	5	16	0.80	15.2	6
	250	5	12	0.60	11.4	5

[1] At 0.05 kg/m2 dry ink coverage (150cm²/g wet ink), [2]At 50% porosity, [3] Based on 10 micron print with 50% porosity

Physical Properties	**General Description**.....Ag flake ink in butyl carbitol **Viscosity (typical values)** .....80,000cP at 0.1sec^{-1}, 6000cP at 100 sec^{-1} **Specific Gravity** .....3.0 **Flash Point**.....Non-flammable **Particle Size** .....D50 1.5 micron D90 4.0 micron **Ag Content**.....75 wt%
Storage and Printing	**Storage**.....Room temperature **Shelf life** .....>6 months **Cleaning solvent**.....Isopropanol **Screen mesh material**.....Stainless steel or polyester **Screen mesh count** .....400 to 80 wires per inch
Shipping and Packaging	Standard sample order is 100g or multiples of 100g. Inquire directly for packaging of larger quantities.

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Contact us today to learn more.
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