Metalon® Conductive Inks for Printed Electronics

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Metalon® JS-A291

Nanosilver Ink – Aqueous dispersion for Inkjet Printing

JS-A291 is an electrically conductive ink designed to produce circuits on non-porous, temperature-sensitive substrates including polycarbonate, PET, polyimide, and glass. The ink contains a polyurethane which provides excellent adhesion and water-resistance on most substrates. The JS-A series of inks are specially formulated for compatibility and stability with various printheads including those manufactured by Dimatix and Xaar. Printing waveforms are available by request.

Performance Properties

Cure temperature (°C)	Cure time (minutes)	Volume Resistivity (Ω-cm)[1]	Crosshatch Adhesion	Substrate
100	60	5.3 x 10E-4	5B	Melinex ST505
120	30	2.4 x 10E-4	5B	Melinex ST505
140	10	8.6 x 10E-5	5B	Melinex ST505
175	10	3.7 x 10E-5	5B	Polyimide
200	5	2.1 x 10E-5	5B	Polyimide
250	5	9.9 x 10E-6	5B	Polyimide

[1]Value calculated based on estimate of 25% porosity of cured print.

Physical Properties

General Description …… Water-based Ag ink
Flash Point ……Non-flammable

	Value	Units
Ag content	40	wt%
Viscosity	8-12	cP
Surface tension	28-32	dyne/cm
z-avg particle size[3]	30-50	nm
Specific gravity	1.6	–

[3] Malvern dynamic light scattering

Shipping and Packaging

Standard sample order is 50 mL or multiples of 50 mL. Bulk packaging is also available.

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Contact us today to learn more.
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