Metalon® Conductive Inks for Printed Electronics

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Metalon® HPS-021LV

Silver Screen Ink – Aqueous dispersion

HPS-021LV is an electrically conductive silver flake ink designed to produce conductive traces on low-temperature to high-temperature substrates such as paper, PET, glass, polyimide, and silicon. **HPS-021LV** ink is specially formulated for screen printing.

Substrate	Print Method	Print Weight (g/cm^2)	Cure Temperature (°C)	Cure Time (minutes)	Sheet Resistance (ohm/square)	Resistivity (ohm - cm)	X bulk Ag
Melinex ST505	Drawdown - #10 bar	0.00507	80	60	0.035	1.69E-05	10.6
		0.00485	100	60	0.022	1.02E-05	6.4
		0.00502	125	30	0.014	6.74E-06	4.2
		0.00513	150	30	0.011	5.18E-06	3.3
		0.00518	PulseForge[1]	--	0.011	5.62E-06	3.5
Polyimide	Drawdown - #10 bar	0.00511	200	5	0.010	4.87E-06	3.1
		0.00522	250	5	0.006	2.78E-06	1.8
		0.00516	300	5	0.004	2.16E-06	1.4
		0.00532	375	5	0.004	2.13E-06	1.3
		0.00483	PulseForge[1]	--	0.011	4.88E-06	3.1

[1] 5 min pre-dry at 150°C

Physical Properties	**General Description** ..... Water-based Ag flake ink **Viscosity** ..... >1000 cP (Brookfield spindle LV #4, 30 rpm) **Specific Gravity** ..... 3.1 **Flash Point** ..... Non-flammable **Particle Size** ..... D50 2.0 micron D90 4.0 micron **Ag Content** ..... 75 wt%
Shipping and Packaging	Standard sample order is 100 g or multiples of 100 g. Inquire directly for packaging of larger quantities.

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Contact us today to learn more.
Stan Farnsworth: 512 491 9500 x210
stan.farnsworth@novacentrix.com

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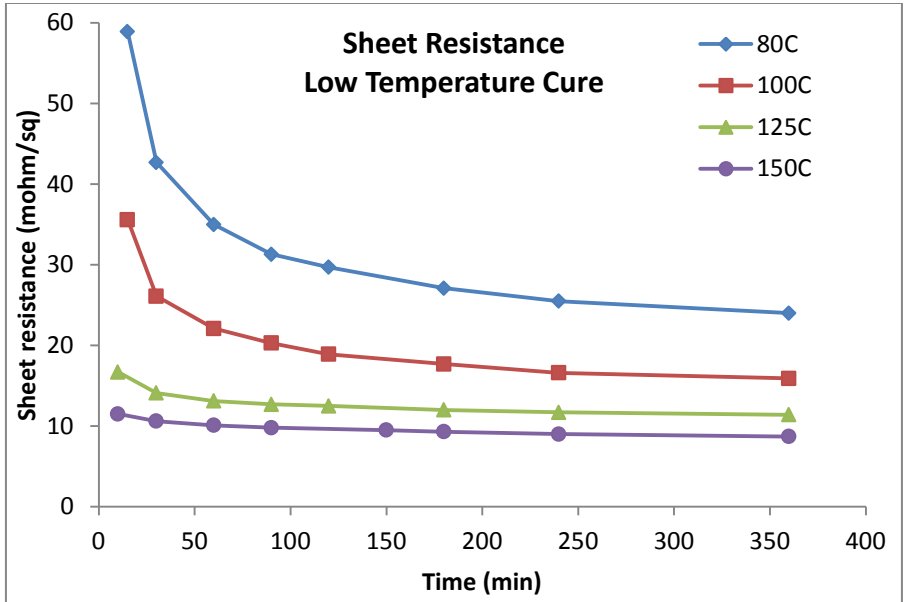

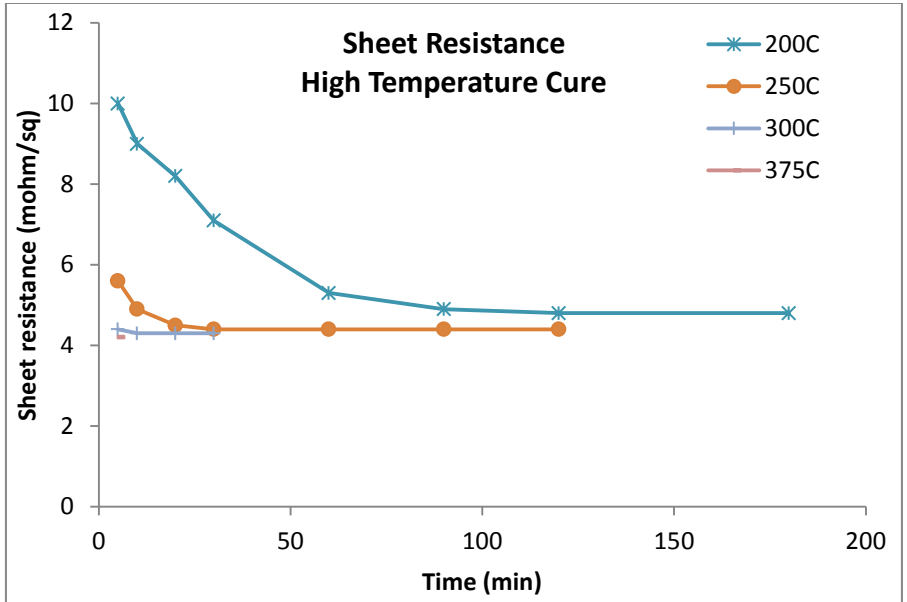

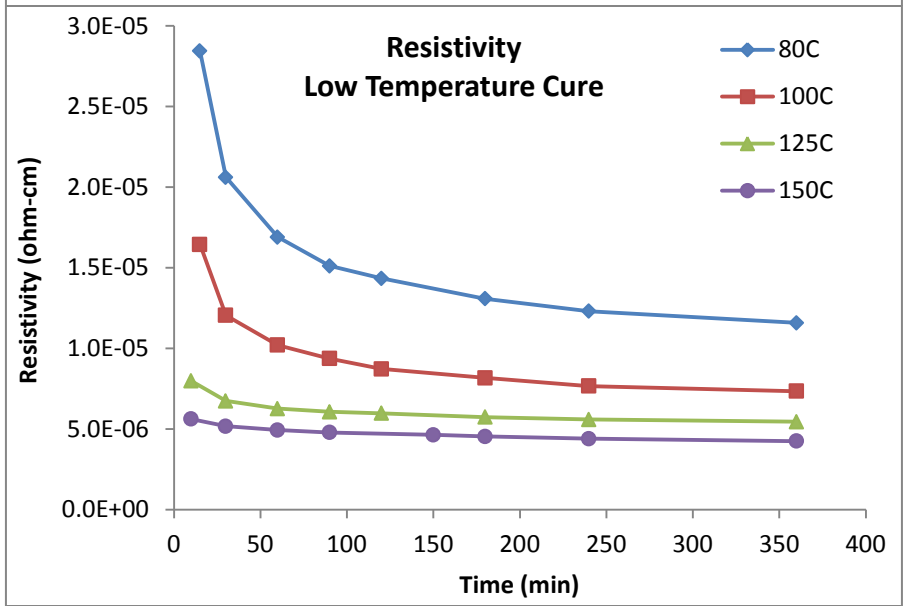

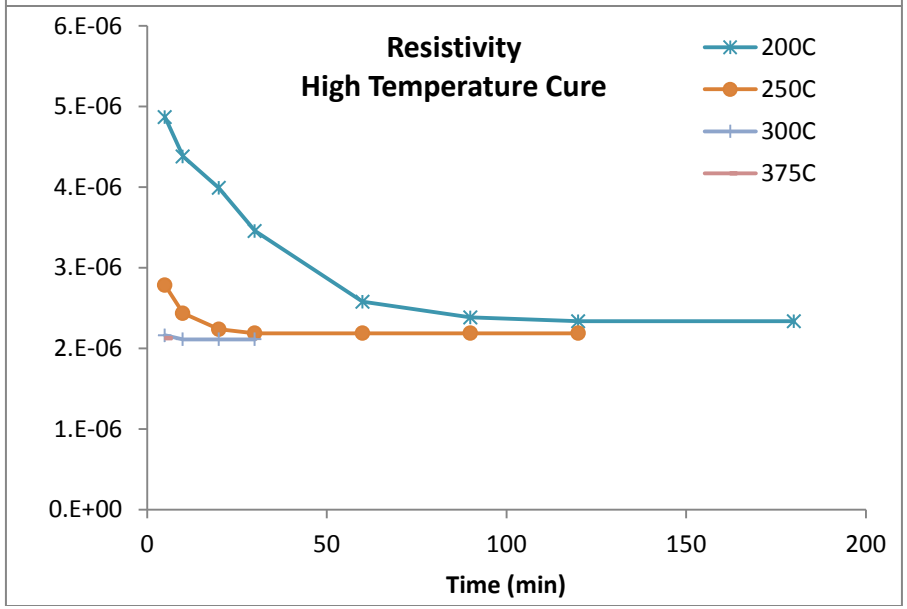

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