Metalon® Conductive Inks for Printed Electronics

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Metalon® HPS-030LV

Silver Screen Ink – Aqueous dispersion

HPS-030LV 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-030LV** 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	0.00546	80	60	0.148	7.71E-05	48.5
		0.00522	100	60	0.045	2.21E-05	13.9
		0.00513	125	30	0.035	1.69E-05	10.7
		0.00513	150	30	0.022	1.07E-06	6.7
		0.00567	PulseForge[1]	--	0.021	1.13E-06	7.1
Polyimide	Drawdown - #10 bar	0.00553	200	5	0.014	7.16E-06	4.5
		0.00520	250	5	0.006	3.07E-06	1.9
		0.00553	300	5	0.005	2.53E-06	1.6
		0.00531	PulseForge[1]	--	0.014	6.88E-06	4.3

[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 0.4 micron D90 0.8 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.
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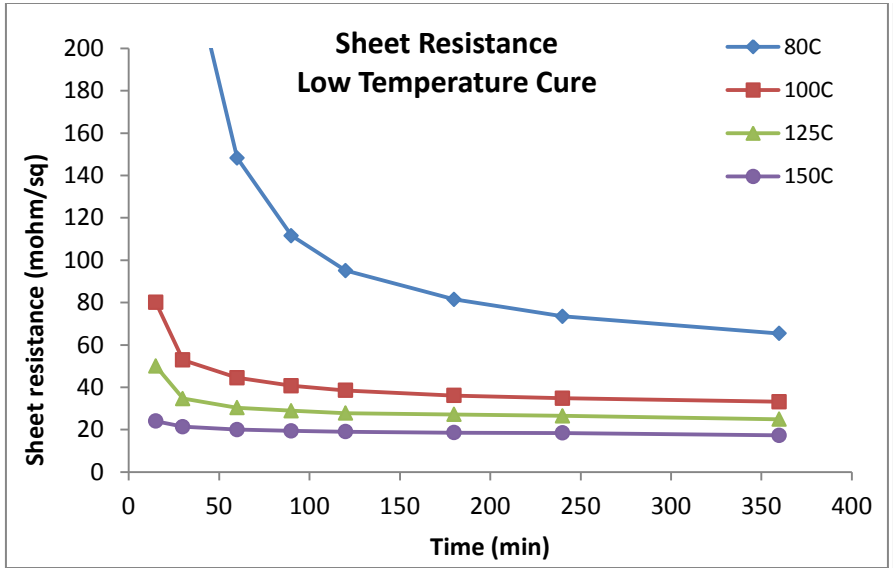

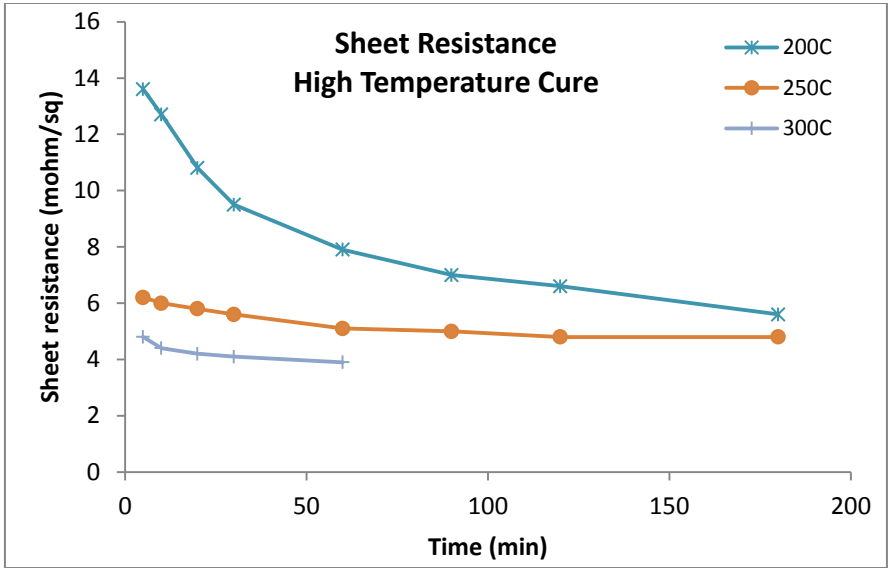

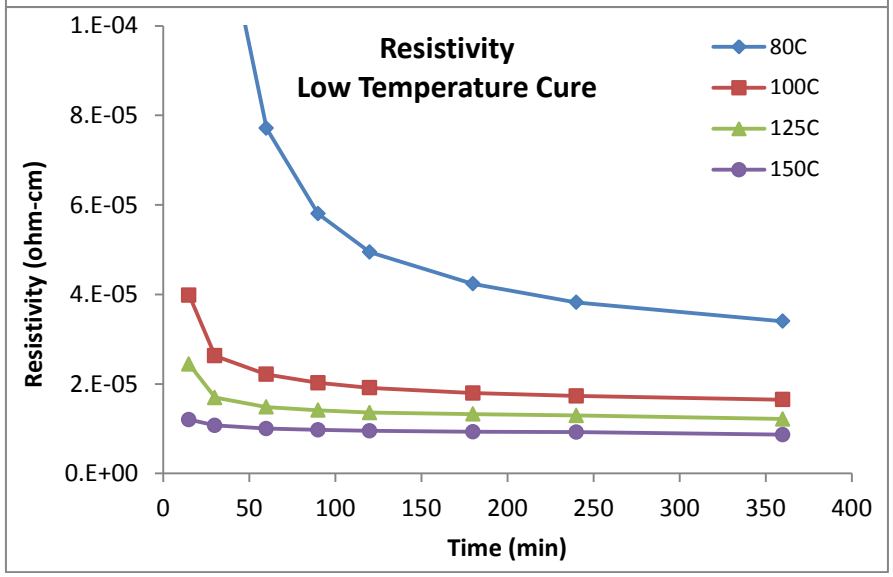

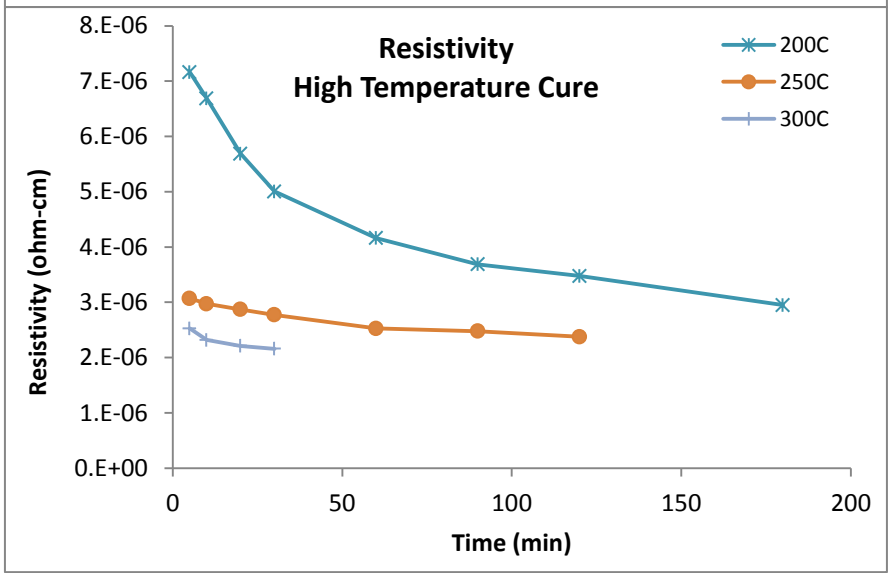

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