

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.

THERMAL PROCESSING							
Substrate	Cure Temperature (°C)	Cure Time (minutes)	Sheet Resistance $(m\Omega/sq)^1$	Weight Resistivity (Ω-g/m²)	Volume Resistivity ² (μΩ-cm)	Sheet Resistivity³ (mΩ/sq/mil)	
Melinex ST505	80	60	35	1.77	33.8	14	
	100	60	22	1.07	20.4	9	
	125	30	14	0.71	13.5	6	
	150	30	11	0.54	10.4	4	
Polyimide	200	5	10	0.51	9.7	4	
	250	5	6	0.29	5.6	2	
	300	5	4	0.23	4.3	2	
	375	5	4	0.22	4.3	2	
PULSEFORGE PROCESSING							
Melinex ST505	PulseForge ⁴	NA	11	0.57	10.85	4	
Polyimide	PulseForge ⁴	NA	11	0.53	10.12	4	

¹ At 0.05 kg/m2 dry ink coverage (150cm²/g wet ink), ²At 50% porosity, ³ Based on 10 micron print with 50% porosity, ⁴ Pre-dry sample at 150C for 5 minutes

Physical	General DescriptionWater-based Ag flake ink				
Properties	Viscosity (typical values)26,000cP at 0.1sec ⁻¹ , 800cP at 100 sec ⁻¹				
-	Specific Gravity3.1				
	Flash PointNon-flammable				
	Particle SizeD50 2.0 micron				
	D90 4.0 micron				
	Ag Content 75 wt%				
Shipping and Packaging	Standard sample order is 100g or multiples of 100g. Inquire directly for packaging of larger quantities.				

Metalon inks can be directly purchased at store.novacentrix.com Contact us today to learn more.

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