

Metalon® Conductive Inks for Printed Electronics

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Metalon® HPS-108AE1

Aerosol Ink - Aqueous dispersion

HPS-108AE1 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-108AE1** ink is specially formulated for aerosol printing and contains a polyurethane additive for improved adhesion to glass and other substrates as well as providing salt spray resistance.

THERMAL PROCESSING							
Substrate	Cure Temperature (°C)	Cure Time (minutes)	Sheet Resistance (Ω/sq) ¹	Weight Resistivity (Ω-g/m²)	Volume Resistivity ² (μΩ-cm)	Sheet Resistivity ³ (Ω/sq/mil)	
Melinex ST505	140	60	0.51	25	484	0.190	
Polyimide	175	60	0.044	2.2	42	0.017	
	200	60	0.026	1.3	25	0.010	
	250	20	0.014	0.70	14	0.005	
PULSEFORGE PROCESSING							
Melinex ST505	PulseForge ⁴	NA	28	1.4	44	0.011	

¹ At 0.05 kg/m2 dry ink coverage (126 cm²/g wet ink), ²At 50% porosity, ³ Based on 10 micron print with 50% porosity, ⁴ Pre-dry sample at 140C for 5 minutes

Physical	General Description Water-based Ag flake ink			
Properties	Viscosity (typical values) 150 cP (Brookfield #2 spindle @ 30rpm)			
-	Specific Gravity2.2			
	Flash Point Non-flammable			
	Particle Size			
	D90 0.7 micron			
	Ag Content 60 wt%			
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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