

Metallograph™ Elastic Conductive Inks

ENHANCE STRETCH WRAP

Metallograph Elastic Conductive Inks are solvent borne and can be used as a spray or gravure deposition. The elastic conductive inks, which retain conductivity with up to 100% elongation, can be printed onto a wide variety of flexible substrates and including stretch wrap. Printed elastic conductive inks can be used for a variety of applications including logistics security, RFID and flex circuits where the conductive traces may be subject to significant extension, wide temperature variations or significant flexing and bending.

Elastic Conductive Ink

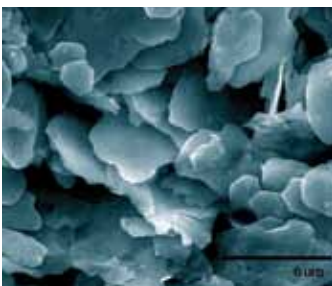
Physical Properties	Ct wt	gsm	20-25
	wt/gal	lbs/gal	13.43
	% metal	% dry	75-85
	Viscosity	cps	225-250
	NV	%	62
Electrical Properties			Resistivity
	% Elongation	0% as is (unstretched)	0.2-1.5 Ω
	% Elongation	50%	24-25 Ω
	% Elongation	100%	120-140 Ω
Print Method	Gravure or Spray Depositions		
Substrates	Polyethylene Film, Plastics		

Benefits

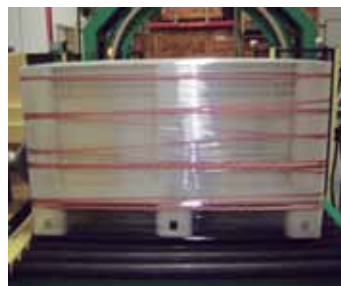
- Security throughout supply chain
- Attach a circuit
- Current flows through
- Continuous visible line

Application

- Security
- RFID
- Flexible circuits



Silver-coated copper flakes, magnified here, are placed in the inks to make them conductive.



Stretch wrap, shown here, can be used as a security feature when enhanced with Elastic Conductive Inks.

ABOUT IIMAK FLUID INKS

IIMAK offers a full line of Metallographic Inks for screen, gravure and flexo printing with silver and composite flakes. With 25 years experience, IIMAK Fluid Inks also offer a full range of custom ink making and distribution services for aqueous, UV, solvent, and hot-melt inks and dispersions.

