

Metallograph™ Thermal Transfer Ribbons

NEW DIGITAL TECHNOLOGY FOR THE PRINTED ELECTRONICS INDUSTRY

Now, on-demand production of printed electronics is possible with IIMAK's new Metallograph conductive ribbons. Thermal transfer is an established digital printing technology that is cost effective for low volume production and rapid prototyping of printed circuits.

Metallograph ribbons can be used to print conductors directly on flexible substrates or to print seed patterns for electroless plating of thicker conductors. Unlike other digital technologies, Metallograph printed circuits feature uniform thicknesses and sharp lines and traces. Also, Metallographic circuits are conductive immediately after printing with no post process sintering.

Choose the Metallographic Ribbon for Your Application

	Metallograph Composite Ribbon	Metallograph Vacuum Metalized Ribbon
Conductor	Nanodynamics® silver-copper coated composite flakes	Aluminum
Thickness	up to 3.0 μ	up to 0.3 μ
Surface Resistivity	< 1 Ω/□	< .1 Ω/□
Sintering	No	No

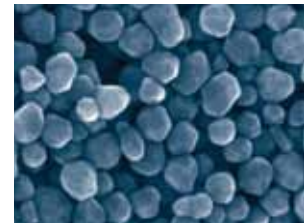
Applications	Print On	Suggested Printers
<ul style="list-style-type: none"> Printed electronics RFID Packaging & smart cards Membrane keyboards Security Seed layer for plate up 	<ul style="list-style-type: none"> Polyimide (Kapton) Polyester Polycarbonate Polypropylene Polyethelyene 	<ul style="list-style-type: none"> Matan Gerber Zebra Intermec Datamax

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.

Features

- Highly conductive
- No sintering
- Sharp lines & traces <100 μ
- Consistent conductive thickness
- Rapid prototyping of flexible circuits
- No screens, no harsh chemical processing
- Printable on most film substrates
- Ribbon widths from 25 cm to 1.0 m
- Proven digital printing technology



Silver-coated copper particles are disbursed into thermal transfer inks to make them conductive.



Metallograph Ribbons can be used in all types of thermal transfer printers.

