

Nano-Ag Conductive Ink for Inkjet Printing

Product Model: MGT-IJP-INK3050

Product introduction

MGT-IJP-INK3050 is a new electronic material for digital printing and deposition of conductive circuit technology. The MGT-IJP-INK3050 can be used with the Inkjet printers to achieve digital, contactless, high-precision patterned distribution of large area circuit conductors for touch screen, solar cell, OLED display, OLED lighting and printed RF antenna applications. MGT-IJP-INK3050 presents excellent electrical conductivity and durability on the surface of PET film.

Product advantages

- (1) Excellent electrical conductivity
- (2) Printing is very smoothly
- (3) High content of nano-silver
- (4) Good hardness and adhesion

Application conditions

Printing substrates: PET, Teslin, PEN, ITO, PI

Compatible nozzles:

Epson series nozzle : DX5, DX7,
 Fuji Starlight series、spectra series,
 Konica nozzle : KM512i, KM1024i
 Ricoh nozzle : Gen5, Gen5s, Gen6

Curing conditions: Oven: 150 °C or NIR infrared

Test	Properties
Product system	Environment-friendly solvent system
Particle size of silver powder	30~50nm
Viscosity (cp)	5~12cP adjustable*
Silver content	30~40wt%
Sheet resistance	*1 ~10 mΩ/□/mil affected by curing conditions
Adhesion	Level 0 (100% non-peeling)
Hardness	2H

- * MGT-IJP-INK3050 has subdivided models for different nozzles, please confirm before ordering.
- * Viscosity can be customized according to different nozzles.
- * Sheet resistance is affected by the temperature of post-printing conditions.
- * Sheet resistance is affected by the properties of the substrates.

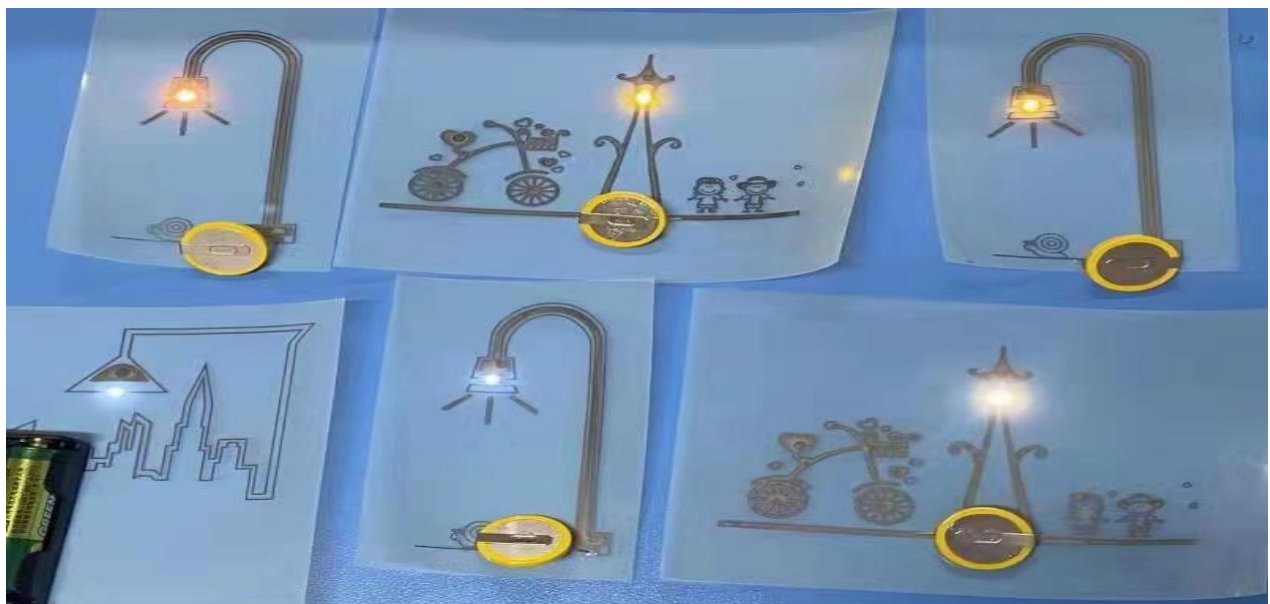
Storage and use:

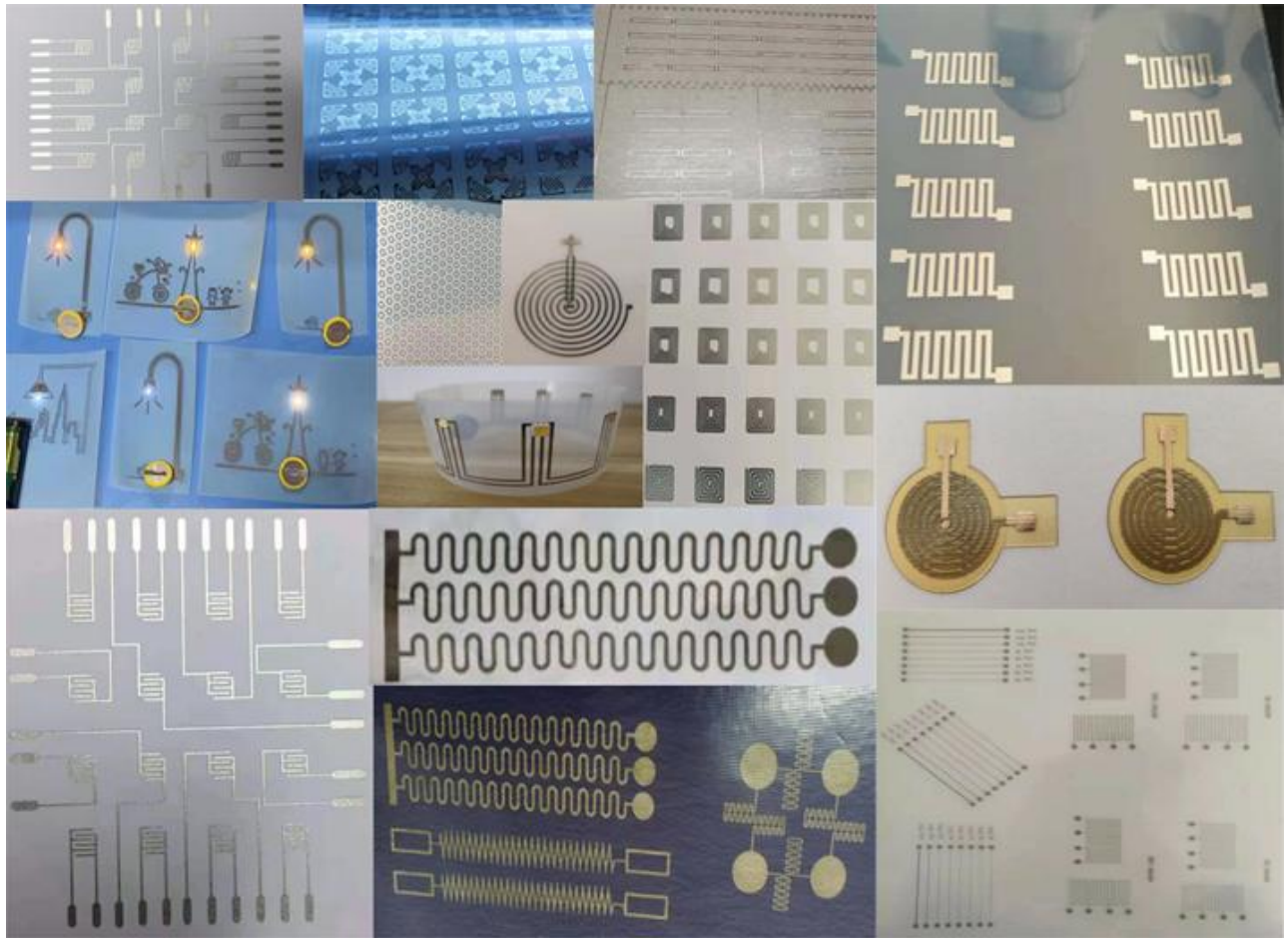
- (1) Long term storage should be 0~10°C sealed storage away from light.
- (2) Remove and restore to normal temperature after refrigerating, mechanical stirring is recommended for 10 minutes.
- (3) The printing environment is recommended to be 20~25°C.

Ink models for different nozzles:

Test Items	MGT-IJP-INK3050-EN	MGT-IJP-INK3050-KA	MGT-IJP-INK3050-RH
Nozzle	Epson full series	Konica 512i, 1024i series	Ricoh GEN5, GEN5s, GEN6
Particle size of silver powder	30~50nm	30~50nm	30~50nm
Viscosity (cp)	5-6cP	~12cp	~10cp
Silver content	25~30wt%	35~40wt%	35~40wt%
Sheet resistance	*1~2mΩ/□/mil affected by curing conditions	*1~2mΩ/□/mil affected by curing conditions	*1~2mΩ/□/mil affected by curing conditions
Adhesion	Level 0 (100% non-peeling)	Level 0 (100% non-peeling)	Level 0 (100% non-peeling)
Hardness	2H	2H	2H

Inkjet printing case on different substrates:





Disclaimer: The information provided in this Technical Data Sheet (TDS) is compiled in good faith and obtained using procedures performed at Mogreat and to the best of our knowledge. The information on this TDS has been updated on the date printed, and latest versions can be obtained upon request. The customer is responsible for conducting tests to determine whether our products are compatible with the customer's process and specific applications.

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