



Technical Data Sheet

SP-2000A-YKC7B

Conductive silver ink

A. Product Description

SP-2000A-YKC7B is a high-performance fast curing ($\leq 10\text{min}$) halogen-free conductive silver ink, which can provide excellent bending and impedance value, and can be used in the production of **PDLC film electrode printing**, and the screen printing has good printability. The ink material has strong adhesion to the ITO surface of the substrate.

B. Product Features

- Silvery-gray ink.
- **Fast curing ($\leq 10\text{min}$)**
- Low resistance
- **Excellent adhesion to ITO film**
- Good printability
- RoHS compliant ; Halogen free

C. Product Specifications

Uncured Properties	Unit	Specification	Detection method	Measured value
Viscosity (5 rpm)	cps	15000~35000	Brookfield DV-III/CP-51 @25°C	24357
Solid content	%	68~80	150°C/60min	75.5
Cure temperature	°C	100	-	-
Cure time	min	10	-	-

Cured Properties	Unit	Specification	Detection method	Measured value
Adhesion	-	5B	Cross-cut test (3M tape #600)	5B
Volume resistance	$\Omega\text{-cm}$	$<2.5\text{E-}04$	ASTM D257-78	9.2E-05
Water bath (boil) test @ITO Flim		1. No natural shedding 2. Laminating copper tape, No shedding after tearing	@100°C(boil)/8hr @50°C/200hr	Confirms
Tearing force	N	> 7	ASTM D3330 (T-peel 180°)	9



*The above cure condition are guideline recommendations. Cure condition may vary based on customers' experience and application requirements.

*Resistors can be customized

D. Instructions

- Operation method: It is recommended to stir the ink well before printing.

- Recommended screen parameters:

Stirring time	Rotation equipment (sealed containers)2~3min, speed 100~200 rpm
Screen type	Polyester, Stainless Steel
Mesh	100~200 mesh
Printing thickness	12~50 um

- Clean-up: Recommended to use clean printing equipment with DBE and acetone or other

E. General Information

1. The conditions of use and the actual value are still subject to the customer's usage environment and procedures.
2. The surface of the substrate must be cleaned before using the product.

F. Storage

1. Store the ink in an airtight container. Storage temperature 25 °C (**refrigeration is best**).
2. The product removed from the container may be contaminated during use. **Do not pour the used product back to the original container.**
3. **The storage life at room temperature is 6 months, and it is recommended to use it on the same day after opening, if the ink is not used up, it is recommended to refrigerate (0~10 °C) and preferably within 3 days use it first.**

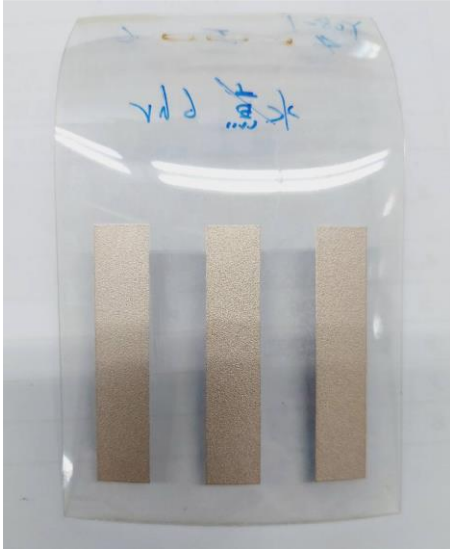
G. Package:

1Kg plastic jar or according to customer requirement.

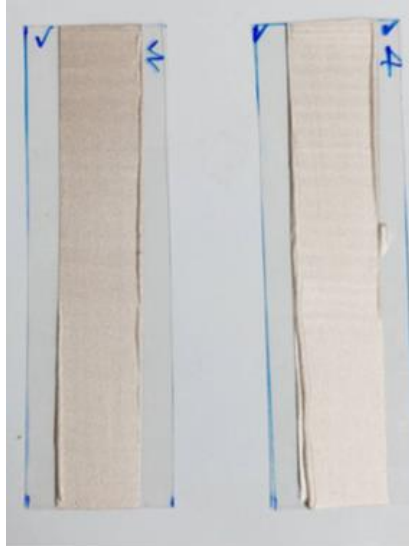


H. Test & Application

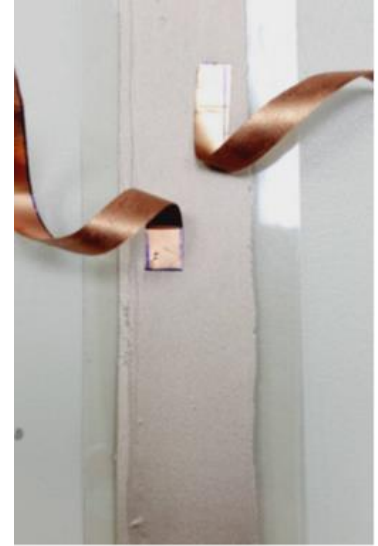
Water bath (boil) test @ITO Flim :



100°C(boil)/8hr :
No natural shedding



50°C/200hr :
No natural shedding



50°C/200hr :
Laminating copper tape,
No shedding after tearing

Application diagram: Polymer-Dispersed Liquid Crystals smart film



PDLC film



PDLC film electrode printing

PDLC film



I. Company Information



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