

Specification

1. Product introduction

MGT-CM-S51 transparent conductive ink is on the basis of our company independent research and development of nanometer silver wire, in specific formula design and production of transparent conductive ink, using to screen printing, roller coating, knife coating, can be completely dry. Suitable for requirement high conductivity and transparency photoelectric device. such as membrane switch, cold light tablets, touch panel, LED, solar panels and so on.

2. Technical

Item	MGT-CM-S51
Appearance	blue gray liquid
System	Waterborne system
Viscosity	10000-40000 mPa · s
Sheet resistance	100-200 Ω / □
Haze	≤4%
total transmittance	≥85%
Printing method	Screen printing, roller coating ,knife coating and others
Drying condition	150°C/10min
Adhesive force	3M 610 tape test resistance change within 10%

The above data is adapt rod coating and drying to get the result. The wet film thickness of about 18 um. Screen printing is recommended to use 300 mesh screen, PET substrate processing degree more than 42 dyne.

3. Screen printing referenc technical

Method:	Hang pulp before printing	Screen parameters	300 mesh 55um、 polyester mesh
Material:	PET	Material indicators	≥42
Scraper brand:	Youli	Snap-off:	1-2cm
Mesh tension:	12-13N	Normal stop position	15cm
Scraper hardness:	75°	Attack angle:	60°
Scraper depth:	2mm	Printing pressure:	50-70N
Space:	0.3mm	Pump Pressure:	0.6MPa
Squeegee stroke:	3s	Screen up speed:	15cm/s

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The above information just for your refrence.

4. Product feature

- 4.1 Low haze, high light transmittance
- 4.2 Water system, non-toxic
- 4.3 Good electrical conductivity, good flexible, good adhesion

5. Suitable for base material

- 5.1. PET: Handle more than 42 dyne
- 5.2. Glass substrate

6. Notice

6.1. The ink need to be slow stir well before using, and ensure the uniformity in the printing process

6.2. Film thickness directly affect the haze, light transmittance and sheet resistance and so on.

6.3. Retained at room temperature, it is suggested 5-15 °C, ultrasonic oscillation is strictly prohibited

6.4. The finished film can use pure water rinse, it is forbidden to force to wipe and ultrasonic oscillation;

6.5. If there have black insolubles when using, you can use 200 mesh filter to filter