Technical Data Sheet

Product Name：Screen Printing Transparent Conductive Ink

Product Code：MGT-SPI-9X

Product Description:

Screen printing transparent conductive ink is a water-based paste that is formulated by mixing ultrafine silver nanowires, modified conductive polymer , PEDOT/PSS (Poly 3,4 – ethylene dioxy thiophene / polystyrene sulfonate) and other ingredients. The ink is designed specifically for the direct printing of transparent pattern electrode and transparent conductive circuits on substrates such as PET, PC, PU, and glass, etc.

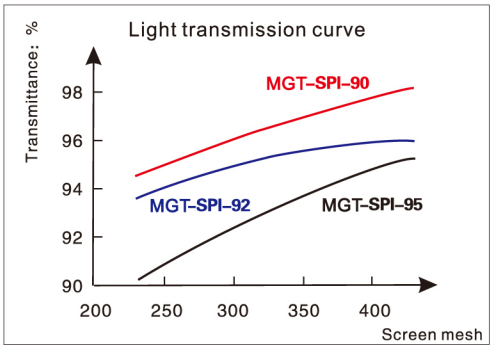
Product Features:

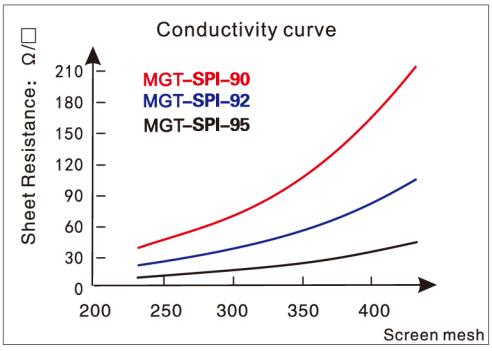
1.Better conductivity
2.Improved light transmission
3.Greater printing effect
4.Broader applications
5.Better bending resistance
6.Stronger adhesion

Performance Specification:

Item	Sheet Resistance (Ω/□)	Conductive Layer Light Transmittance (%)	Applications	Ink Utilization Rate (%)
MGT-SPI-90	50～150	95～98	Capacitor touch electrode	10 to 20 % higher than other materials
MGT-SPI-92	30～70	94～96	Capacitor touch electrode, a transparent lead with a line width ≥ 3 mm	
MGT-SPI-95	15～40	91～95	Transparent conductive circuits Transparent heating electrode	

Product Characteristic Curve:





Reliability test:

Test Items	Test Result	Test Method
Viscosity（25℃）	30～200 P	Rotation viscometer
Curing conditions	150℃×30min	Heat drying box
Adhesion strength	5B	Cross-cut test
High temperature High humidity	①Change of sheet resistance：△R≤10%； ②Change of light transmittance ：△T≤2%；	85℃、85%RH、1000hr
		65℃、95%RH、1000hr
QUV ageing testing		UVA340 24hrs×7

Notes: Above test data or results were obtained under our current conditions, for your reference only , customer test result is subject to the user's actual conditions.

Storage: keep in a cool and ventilated place at15~25℃,refrigeration or freezing is not recommended.