

Product Name: Silver Nanowires Coating Solution

Product Code: MGT-R2R-X202

Product Description:

Silver nanowires coating solution is the preferred material for manufacturing high-end optical flexible transparent conductive film. Through Slot-die, Micro-garvure R2R (roll to roll) and other precision coating processes, this solution forms a conductive film or conductive glass with good electrical conductivity, high transparency, and low haze on the surface of flexible PET or glass substrates (Surface Resistance< 100Ω/□ ,Transparency ≥91%, Haze≤1.0%).

Product Features:

1. Water-based and eco-friendly
- 2.Stronger adhesion on substrates
- 3.Higher process compatibility
- 4.Efficient film-forming

Product Specifications:

Model	Parameters (Before Curing)	Measurement Method	Value	Remarks
MGT-R2R-X202 (Water-based coating solution)	Functional filler	N/A	Silver Nanowires	● Over-coating ink specially developed by InnoShines can greatly improve the stability and reliability of the film.
	Solid content (wt%)	Ignition loss Method , theoretical calculation	<1	
	Density (g/ml)	/	0.9-1.0	
	Viscosity (cps)	Brookfield Viscometer	< 50	● AgNW coating layer transparency up to 99%, (excluding substrate)
	Coating thickness (um)	Thickness controller	20-30	
	Parameters (After Curing)	Measurement Method	Value	
	Sheet resistance (Ω/□)	Four-point probes	10-100	● Customized products
	Transmittance (%)	WGW-ASTMD1003	≥91	
	Haze (%)	WGW-ASTMD1003	≤1.0	
	Adhesion	GBT9286-1998	5B	
	Hardness (H)	Pencil hardness tester	2-3	

Usage and precautions:

Curing conditions	After coating on PET substrate, curing it with 100-120℃ at 2-3min.
Process	(1) The AgNW coating solution will be mixed evenly before use. And ensure it's uniformity. (2) Suggested coating thickness :20~30microns, It can be adjusted as per the equipment difference. Coating thickness directly affect the film conductivity, transmittance, haze etc. (3) Roll to roll coating (R2R) or slit coating are recommended. (4) Substrate: PET, thickness: 125um; Hard coating film or original film can be used, the Surface tension is more than 38 dyne, recommend corona treatment before coating. (5) Stored at room temperature15~25℃, Ultrasonic oscillation is strictly prohibited.
Clean	When cleaning , Please use ethanol, isopropanol etc.
Storage	Stored in 15~25℃ , must pay attention to AgNW coating solution is no frozen, need to be keep 2-3h at room temperature, and keep sealed and store in a cool and well ventilated place when you no need it .
Shelf-life	Within 45 days after delivery.
Notes	Please shake the coating solution evenly by hands before use. Prohibit to use ultrasonic stirring or mechanical equipment due to the high length-diameter ratio of silver nanowires in the coating solution . The film can be cleaned by dust-free cloth dipped with ethanol . If there is insoluble substance when using it , can be filtered using 200 mesh filter.

Applications: Silver nanowires coating solution can be widely used in solar energy, OLED, flexible and full sizes touch displays; conductive composite materials, smart film or glass, electrode printing ink and other fields.

Packing sizes: 1L / 5L / 10L / 25L / 50L / 100L / 150L / Customized