

Crystode® Series Silver Nanowire Conductive Film



NF-CT-25S-125

PRODUCT DESCRIPTION

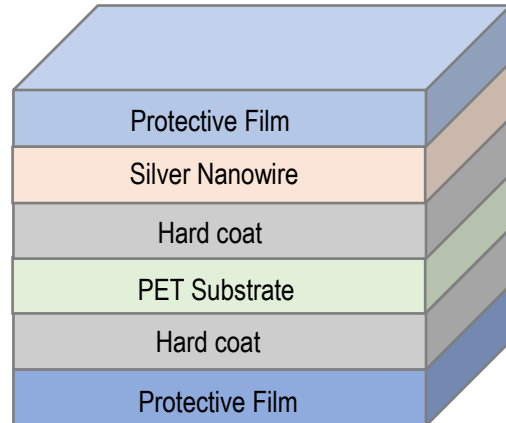
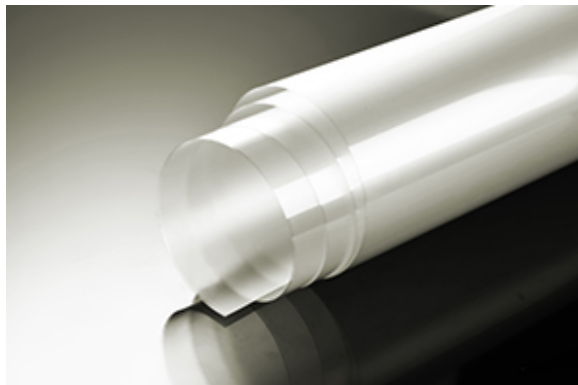
The Crystode® transparent conductive film is a cutting-edge nanomaterial based on Nuovo Film's proprietary technology, silver nanowire ink is deposited on transparent organic film by high-precision roll-to-roll coating method.

The Crystode® Silver Nanowire Conductive Film has the advantages of low resistivity, high transmission, superior flexibility and ease-of-downstream manufacturability.

PRODUCT APPLICATIONS

- Interactive Multi-touch Display
- Flexible Touch Panel
- Digital Signage
- Self-service
- Game Machine
- PDLC Intelligent Window

PRODUCT STRUCTURE



PRODUCT PROPERTIES

Property	Value	Unit	Test Method
Thickness	125 ± 10	µm	-
Sheet Resistance	25 ± 5	Ω/□	Four-point probe
Transmission	≥ 89	%	Hunterlab ColorQuest XE
Haze	≤ 2.3	%	Hunterlab ColorQuest XE

b*	≤ 2.3	-	Hunterlab ColorQuest XE
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MECHANICAL TEST

Property	Value	Unit	Test Method
Adhesion	5	B	Cross-hatch test (3M 610 tape)
Hardness	≥ 1	HB	JIS K5600 (Load 500g)

ENVIRONMENTAL TEST

Test	Sample Structure	Test Conditions	Specification					
UV Exposure	<table border="1" style="margin: auto;"> <tr><td>OCA</td></tr> <tr><td>Silver Nanowire</td></tr> <tr><td>Hard Coat</td></tr> <tr><td>PET substrate</td></tr> <tr><td>Hard Coat</td></tr> </table>	OCA	Silver Nanowire	Hard Coat	PET substrate	Hard Coat	Xe light exposure × 500 hrs 1000W @400-1000nm	ΔR/R ₀ < 20%
OCA								
Silver Nanowire								
Hard Coat								
PET substrate								
Hard Coat								
High Temperature and High Humidity	85°C / 85% RH × 500 hrs 60°C / 90% RH × 500 hrs							
High Temperature Storage	85°C × 500hrs							

FILM WIDTH

<input type="checkbox"/> 355MM	<input type="checkbox"/> 406MM	<input type="checkbox"/> 500MM	<input type="checkbox"/> 780MM
<input type="checkbox"/> 1000MM	<input type="checkbox"/> 1250MM	<input type="checkbox"/> 1550MM	



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Storage Condition

- (1) Storage Temperature: $22\pm 5^{\circ}\text{C}$; Humidity: $55\%\pm 10\%\text{RH}$.
- (2) Please place the product on a flat surface and avoid squeezing and stacking.

Precautions For Use

- (1) Do not handle the products without gloves on. Do not touch the conductive AgNW layer of the product, once the protective film is released.
- (2) Please do not use hard objects to wipe the surface of the product, in order to prevent the scratch.
- (3) The product can be used for laser etching and screen printing processes. Please refer to Nuovo Film's reference documents for details.
- (4) Please use neutral OCA for lamination. Please use acid-free protective film during transportation.