

Crystode® Series Silver Nanowire Conductive Film



NF-CT-45S-50

PRODUCT DESCRIPTION

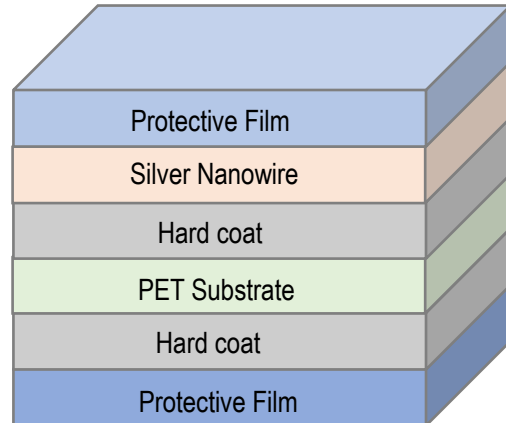
The Crystode transparent conductive film is a cutting-edge nanomaterial based on Nuovo Film's proprietary technology, silver nanowire ink is deposited on transparent organic film by high-precision roll-to-roll coating method.

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

PRODUCT APPLICATIONS

- Touch Panel
- Flexible OLED Display
- Smart Window
- Thin Film Solar
- E-paper
- EMI shielding

PRODUCT STRUCTURE



PRODUCT PROPERTIES

Property	Value	Unit	Test Method
Thickness	50 ± 5	µm	-
Sheet Resistance	45 ± 10	Ω/□	Four-point probe
Transmission	≥ 90	%	Hunterlab ColorQuest XE
Haze	≤ 1.5	%	Hunterlab ColorQuest XE
b*	≤ 1.8	-	Hunterlab ColorQuest XE

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-left: auto; margin-right: 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							
OCA: 3M 8146								

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*	

*1550mm available Q2 2018



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