

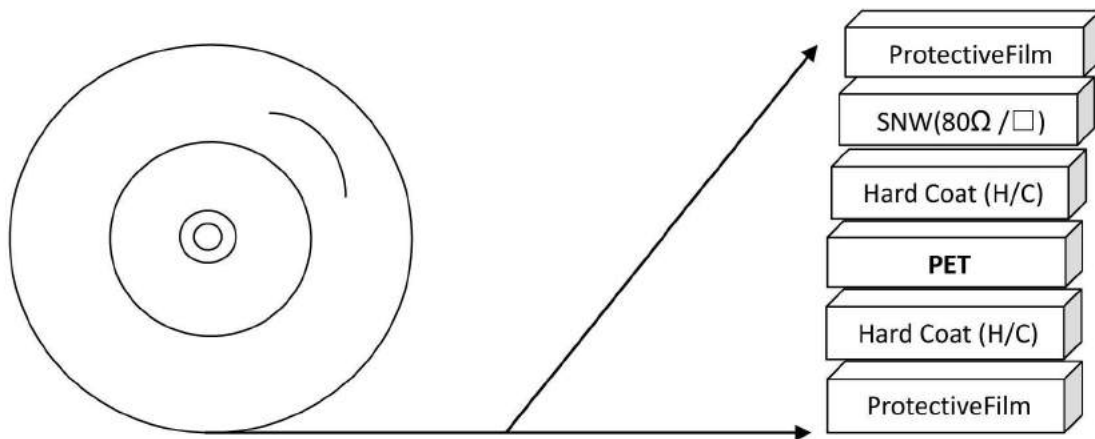
COATING SUISSSE LTD & CINOBIZ LTD

Product Type

Part No.: CT-F80-500S-125

Category: 125um 80Ω /□Single-sided SNW Film

Product Structure



Dimensional Specification

Item	Unit	Spec	Remarks
Roll Width	mm	500±2	
Effective Width	mm	495±5	
Thickness	um	125	
Winding Direction	/	/	Conductive layer winding inside
ProtectiveFilm(Top)	um	40	PP (130°C 30min)
ProtectiveFilm(Bottom)	um	40	PE

Property

	Item	Unit	Spec	Test Instrument & Methodology
Optical property	Transmittance	%	≥90	Hunter Lab ColorQuest XE
	Haze	%	≤1.1	
	Color (b*)	-	≤1.0	
	Surface Resistance	Ω/□	80±10	JG ST-2258 Four-point probe
Thermal Shrinkage	MD	%	<1.0	JISK 7133 (150°C 90min)
	TD	%	<1.0	
Adhesion	SNW	-	5B	Cross-hatch tester; 3M (610) tape
Pencil Hardness	SNW side	-	≥3H	JISK5600 (500g)
	H/C side	-	≥2H	JISK5600 (500g)

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Reliability

Item	Test Condition	Specification
High Temperature High Humidity	70°C 90%RH 240hrs	(1) Surface resistance: $\Delta R \leq 30\%$ (2) Transmittance: $\Delta Tt \leq 1\%$ (3) Haze: $\Delta Td \leq 0.1\%$ (4) Color: $\Delta b^* \leq 0.1$
High Temperature	80°C 240hrs	
Thermal Cycle	-40°C (2hrs) ~ 60°C (2hrs) 30 cycles	

Visual Inspection

Test Condition	Illumination	800~1200 lux		Distance	35±5cm
	Visual angle	45°		Time	15±3s
Item	Standards	Test Results	Remarks		
Spot defect	$D < 0.2\text{mm}; 1\text{m}^2 < 10\text{pcs}$	OK	Inspection by eye; Point gauge		
	$0.2\text{mm} < D \leq 0.4\text{mm}$ $ds \geq 20\text{mm}; 1\text{m}^2 < 10\text{pcs}$	OK			
	$D > 0.4\text{mm}$	Not allowed			
Linear defect	$W \leq 0.05\text{mm}, L < 5\text{mm}$	OK			
	$W \leq 0.05\text{mm},$ $5\text{mm} \leq L < 10\text{mm}$ $1\text{m}^2 < 5\text{pcs}$	OK			
	$W > 0.05\text{mm}$ or $L > 10\text{mm}$	Not allowed			

Storage Condition

- (1) Please store products under 22±5°C, 55%±10%RH.
- (2) Please place the product level to avoid pressing.

Precautions For Use

- (1) Please handle the product with gloves on. Please do not touch the conductive SNW layer of the product with hand, once the protective film is released.
- (2) Please do not use hard objects to wipe the surface of the product, in order to prevent visual and functional defects caused by scratching.
- (3) The product can be used for laser etching, screen printing, and chemical etching processes. Please refer to Nuovo Film's reference documents for process parameters.
- (4) Please use neutral OCA for lamination. In the process of transfer, please use acid-free protective film.