

## Model Number: SF-1

### 1 Description

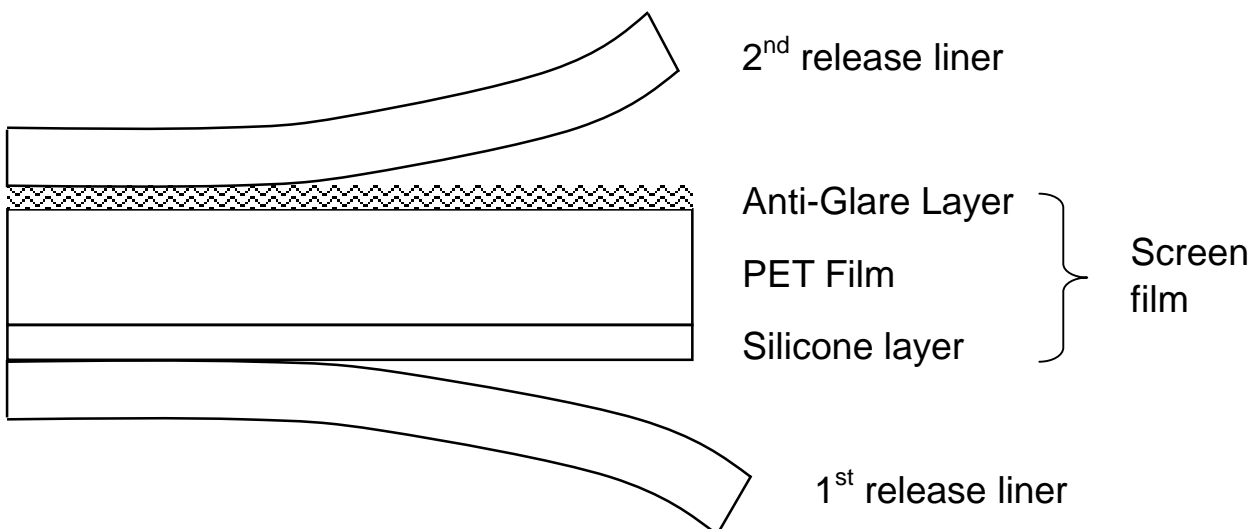
The screen film is designed for project capacitive touch panel and/or ultra-high resolution screen protection. The advantage of the screen film is as follows.

- a. High definition
- b. Anti-fingerprints
- c. Top smooth and soft
- d. Anti-glare
- e. High transmittance

### 2 Applications

The applications of end products are including mobile phone, digital camera, GPS, NB, PC monitor, TV... etc.

### 3 Configuration



### 4 Product safety and authentication

The product is conformity with RoHS directive which means that lead, cadmium, mercury, hexavalent chromium and specific bromine-based flame retardants have not been used. The product also conform that 16 proposals for the identification of Substances of Very High Concern (SVHC) candidate detailed list including the

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	App.No.	

European Union REACH laws and regulations in July 10, 2008.

5 General specifications :

	Units	Min.	Typ.	Max.	Test std./meter
Screen film thickness	µm	115	120	125	Micrometer
Release liner thickness	µm	48	50	52	Micrometer
PET film thickness	µm	97	100	103	Micrometer
Silicone layer thickness	µm	18	20	22	
Anti-glare layer thickness	µm	0.5	2	3.5	
Total Transmittance	%	92	-	-	ASTM D 1003
Transmission Haze	%	-	-	40	ASTM D 1003
Clarity	%	98	-	-	ASTM D 1003
Gloss @20°	units	20	35	50	ASTM D 523
Gloss @60°	units	40	55	70	ASTM D 523
Gloss @85°	units	40	60	85	ASTM D 523
Pencil hardness of anti-glare layer	H	2	-	-	ASTM D 3363
Adhesion of silicone layer to glass @50mm	gf	3	7	11	FINAT-1

6 Mechanical specifications :

Item		Units	Min.	Max.
Tensile strength	MD	Kg/mm <sup>2</sup>	17	23
	CD	Kg/mm <sup>2</sup>	18	24
Elongation	MD	%	130	170
	CD	%	100	140
Hot shrinkage	MD	%	1.0	1.5
	CD	%	0	0.5

7 Reliability :

Item	Description	Criteria
Heat resistance	1000 hours@80°C	Pass testing 1. general specifications 2. mechanical specifications
Cool resistance	120 hours@-20°C	
Humidity resistance	240 hours@60°C, 90%RH	
Thermal cycle	Repeat 10 cycles -20°C(30min) – 80°C(30min)	

Operating temperature	-10°C ~ 80°C	
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8 Caution remarks on operation :

8.1 To avoid the conditions of clean is as follows.

8.1.1 Dipped into water.

8.1.2 Used acidic or basic solution.

8.1.3 Used any organic solvent, such as alcohol, carboxylic acid ... etc.

8.2 Recommended storage condition

Temperature range: 10~50°C

Humidity range: 90%RH or less