

TECHNICAL DATA SHEET

PROMAXSILVER® PET – 100A (for touch screens)

PROMAXSILVER® PET-100A films are surface protecting and self-disinfecting Silver dispersed self-adhesive films with special silicon-based adhesive to be stucked on touch screens, specifically for smart phones and tablets. Primary function is protection of surfaces against physical damages (scratches, deformations, glass breakage), optical (reduces the effects of light on the substrates) and chemical (by creating a physical barrier and limiting the contact with liquids). Also, it has proven properties to disinfect itself from virus (including Coronavirus) and bacteria by 99.9% count within 30 minutes. These films have surface protection liner (hard coating) as top layer, then antiviral coating layer of silver metal, core layer of Polyethylene terephthalate (PET), Silicon PSA adhesive and release film/liner of PET. The films are easy to use with automatic removal of air bubbles. Removal of films are also easy with no adhesive residue on touch screens.

Application Segments :

- ☒ Smart Phone
- ☒ Tablets
- ☒ Touch Screens – Airlines Media, EV taxis , Elevator panels
- ☒ Offices, Banks and schools -where tablets are shared

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1. Product technical data

PROMAXSILVER® PET-100A is a clear, hard coated, silver dispersed in polyethylene terephthalate (PET) film with silicon adhesive.

Protection liner (PET 50 µm)

Antivirus and anti-glare (4 ± 1 µm)

Antivirus coating and base PET film (100 µm)

Silicone PSA adhesive (25 µm)

Release film/liner (PET 50 µm)

Base Polymer	: Polyethylene terephthalate (PET)
Colour	: Nearly Clear (91% transmittance -ASTM D1003)
Thickness [µm]	: 129 ± 4 (excluding liner)
Hardness [500gm]	: 3H (ASTM D3363)
Adhesion of hard coated surface	: 5B (0% peel-off) (ASTM D903)
Adhesive	: Silicon PSA
Adhesive Strength [gf/inch]	: 9 ± 2 (ASTM D903)
Transmittance	: 90% (ASTM D1003)
Haze	: 35 (ASTM D1003)
Heat Shrinkage (MD/TD)[%]	: <2/<2 (Neo Method 150°/30 minute)
Surface treatment (Corona)	: Done on both sides
Temperature Resistance [°C]	: 130-135
CAS Number Silver/PET	: Ag 7440-22-4 / PET 25038-59-9
RoHS 3 (Heavy metals, PBBs/PBDEs, Phthalates)	: Not determined (test by SGS)

2. Standard sizes

- Standard iPad/iPhone sizes
- 40 cm x 5 m
- 104 cm x 50 m
- 104 cm x 200 m

Smaller sizes can be cut and supplied as per the request.

3. Storage – before use

- ☑ Storage conditions require an ambient temperature ranging from +15 °C to +35 °C , with relative humidity between 30 % and 70 %, without direct sunlight exposure. It is imperative to store cardboard boxes vertically in their packing well supported at the end locks.
- ☑ By their nature, adhesives age rapidly before application to their final surface. The adhesive strength of the above films has tendency to weaken over the storage duration.

4. Surface preparation and procedure to apply films

Surface preparation :

- Inspect the surface for any dust, grease, old lamination, grooves , sharp edges and corners
- Clean the dust and grease by IPA or any cleaning solvent

Procedure to apply the film :

- Carefully remove the adhesive paper from the film and affix the film on target surface from one side.
- Gently press the film from one end on the surface gradually to the opposite end so that air bubbles goes away .
- Press the edges or the ends of the film so that they are properly adhered to the surface.

5. Trade related data

HS Number : 3919.90.0000

6. Regulatory

Safety Data Sheet :

When used under normal conditions, this film does not generate or release any hazardous chemicals. This is a non-hazardous product in accordance with the EU criteria . Therefore it is not necessary to prepare a Material Safety Data Sheet for this film. This product is not a hazardous product with regards to transportation legislation; neither does it contain substances that are hazardous to water within the meaning of the EU water act. After use, dispose of the waste product in accordance with the local / national authorities.

DISCLAIMER :

The following technical details are issued to the best of our knowledge and confidentiality , however, without any responsibility for results due to several different kinds of material and application processes. Therefore, we recommend before any usage, a test to be conducted on the original surface.