

TECHNICAL DATA SHEET

PROMAXSILVER® PET – 105A

PROMAXSILVER® PET-105A films are surface protecting and self-disinfecting Silver dispersed self-adhesive films ready to be stuck to surfaces like glass, steel, plastic, wood . 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 hard coating on top layer of dispersed Silver metal, core layer of Polyethylene terephthalate (PET) and bottom layer of PET adhesive. The films are easy to use like protective films, labels or stickers and needs no curing time.

Application Segments :

- ☒ Touch Screens –Elevator panels, Airport Boarding Pass Outlets , Medical Devices
- ☒ Public places & transport
- ☒ Schools
- ☒ Hospitals
- ☒ Hotels and Restaurants
- ☒ Industry

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1. Product technical data

PROMAXSILVER® PET-105A is a clear, hard coated, silver dispersed in polyethylene terephthalate (PET) film with adhesive.

Base Polymer	: Polyethylene terephthalate (PET)
Colour	: Nearly Clear (91% transmittance -ASTM D1003)
Thickness [µm]	: 105 +/- 3
Hardness [500gm]	: 2H (ASTM D3363)
Adhesive	: Acrylate
Adhesive Strength [gf/inch]	: 750 (30 min , ASTM D903)
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

- 40 cm x 5 m
- 40 cm x 10 m
- 127 cm x 50 m
- 127 cm x 100 m
- 127 cm x 200 m

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
- Remove old lamination, covers .
- If grooves or craters are there on the surface, dont use the film as air bubbles would be visible
- Remove any sharp edges as it may cut or damage the film.

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 no air bubbles are trapped.
- Cut the corners of the film with sharp knife taking the support on the edge of the surface.
- 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.