RuKa Innovation
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PROMAX COPPER
ANTIBACTERIAL ANTIVIRAL

PROMAXCOPPER PE – 150NA

Antiviral and anti-bacterial copper dispersed films

PROMAXCOPPER PE-150NA films are antiviral and anti-microbial copper dispersed films without adhesive. User preferred adhesive layer can be applied and used on surfaces like glass, steel, plastic, wood etc to stop the spread of virus and bacteria. User have choice to select thermo sensitive or pressure sensitive adhesive type/layer. These films have top layer with dispersed copper metal in core layer of Polyethylene and bottom layer of paper adhesive. The films are easy to use like labels and stickers and needs no curing time.

Application Segments :

- ☑ Offices
- ☑ Public places & transport
- ☑ Schools
- ☑ Hospitals
- ☑ Hotels and Restaurants
- ☑ Industry

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1. Product technical data

PROMAXCOPPER PE-150A is a soft translucent copper dispersed in polyethylene film without adhesive.

Base Polymer : Poly ethylene

Colour : Light brownish, translucent

Thickness [µm] : 100-150 (ASTM 6988)

Adhesive : Not Applicable (User to apply)

Adhesive Strength [N/25cm] : Not Applicable

Tensile Strength [Kgf/cm2] : 270-320 (ASTM D882)

Elongation [%] : 600-680 (ASTM D882)

Surface treatment (Corona) : Done on both sides

Temperature Resistance [°C] : 115-135

CAS Number Copper/PE **:** Cu 7440-5-8 / PE 9002-88-4

2. Standard sizes

- **40 cm x 10 m**
- **100 cm x 50 m**
- **122 cm x 50 m**
- **137 cm x 50 m**
- **155 cm x 50 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
- Remove old lamination, covers .
- If grooves or craters are there on the surface, dont use the film as air bubles would be visible
- Remove any sharp edges as it may cut or damage the film.

Procedure to apply the film :

- User to apply the adhesive layer on one side of the roll. User can select from various types of adhesive . Silicone/Acrylic/Rubberised adhesive type with thermosensitive or pressure sensitive layers can be selected as per given application.
- 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 no : 3920.10.000
TARIC Code : 3919908065

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 confidentaility , 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.