Nitto
Innovation for Customers

Product Data Sheet

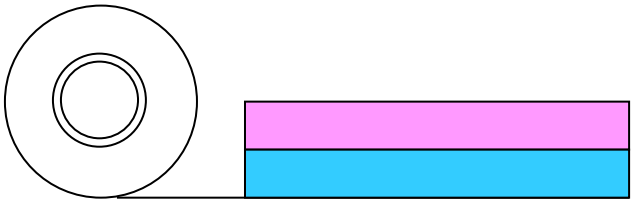
Masking tape for printed circuit boards

# ELEP Masking N-300

## Outline

ELEP Masking N-300 is a masking tape using PET film. Offering excellent chemical resisitance and adhesion properties, This product is used for masking terminal area during the plating of printed circuit boards, mainly for preventing infiltration of the plating solution.

## Construction



Acrylic pressure sensitive adhesive
PET film

## Features

●Light unwinding and easy application.
●Special adhesive offers firm adhesion to printed circuit boards, stable adhesion during process.
●Adhesion increases if pressed with a heating roller.
●Excellent chemical resistance.
●Withstand harsh usage conditions and leaves minimal adhesive residue.
●Minimal change in adhesive strength after laminating enables to be easy peeling.

## Applications

Prevents infiltration of the plating solution during the plating process of printed circuit boards.

## Standard Size・Color

| Item | Thickness (mm) | Width (mm) | Length (M) | Color |
|---|---|---|---|---|
| N-300 | 0.100 | 6/9/12/15/18 | 30 | Green |

*Contact us for information concerning sizes other than the above.

## General properties

| Item | Unit | N-300 |
|---|---|---|
| Thickness *1 | mm | 0.100 |
| Adhesive Strength *2 | N/20mm | 5.48 |
| Unwinding Force *3 | N/20mm | 6.12 |
| Tensile Strength *4 | N/20mm | 83 |
| Elongation *4 | % | 90 |
| Chemical resistance *5 | | ○ |
| Glass epoxy plates *6 | | ○ |
| Phenol plates *6 | | ○ |
| Resist plates *6 | | ○ |

◎：Excellent ○：Very good ×：Not good

Test Method

*1:Nominal thickness

*2:Adherend Stainless steel plate, Tensile speed 300mm/min, Peeling angle 180°, Aging time more than 5.

*3:Tensile speed 300mm/min

*4:Tensile speed 300mm/min, strength and elongation when breaking

*5:A test specimen is applied to the board, exposed to immersion of pH1 solution for 65℃x30min. and evaluated visually.

*6:A test specimen is applied to each board, left it in the hot-air dryer for 130℃x1h, peeled, and evaluated visually.

## Precautions

●Duly inspect the adaptability of this product to your intended use, prior to its application.
We may conduct the adaptability test in your favor. However, its content and results do not guarantee your use. It is of your responsibility to ultimately determine its adaptability.

●The characteristics and preformance of this product depend on the type of adherend, environment of use, and conditions/period after application. Always test (including the appearance) before changing the adherend (composition/surface roughness), conditions or use.

●When the product is applied to PVC adherends with plasticizer or surface-active adherends (electrolyzed, chemically treated, polished, etc.), it may become difficult to release or tend to leave deposits, as time passes.

●When applying the product to a display material, test with particular attention on appearance defects. Stain, cloudiness or unevenness may appear on the surface of the display material, depending on its type. Traces of air bubbles may be left if they are trapped during application.

●Aforementioned problems may also arise when the product is stored for a long period of time after application.

●Do not ues the product outdoors.

●Wipe off any grease, moisture or dust on the adherend before application.

●When coating after the surface protective material has been peeled, products should be used upon giving sufficient consideration to surface washing, below-surface processing and sintering conditions and confirming the adhesiveness of the coating.