

## P-111 AL

### CONDUCTIVE ALUMINUM FOIL

#### PRODUCT DESCRIPTION

P-111 AL offers the highest EMI/RFI shielding effectiveness available with an aluminum backed pressure-sensitive tape. This product is ideal for use in the electronic applications.

#### FEATURES

- Offers high conformability.
- Z-directional conductive adhesive.
- Strong adhesion which insulates, has non-corrosive properties, solvent and high heat resistance.
- Available 1/16th of an inch and wider, making this an economical solution in smaller applications.
- Displays a bright and clean electro-deposited aluminum finish.

#### PRODUCT CONSTRUCTION

ALUMINUM FOIL
ACRYLIC ADHESIVE
LINER

#### APPLICATION

- Widely used for Electro-Magnetic Interference (EMI) and Radio-Frequency Interference (RFI) shielding on small electro-magnetic components, transformers, reactor coils, instrument and control motors.
- Recommended for prototype wiring board layouts and designs, wiring board modifications, repairs and contact surfaces in specialty switch manufacturing.
- Used for economical shielding enhancement wrapped over a braid shielding cables & antennas.
- Also can be used as a static drain.

#### PROPERTIES, CERTIFICATIONS AND SPECIFICATIONS

<b>Backing Material</b>	Aluminum Foil	
<b>Adhesive</b>	Acrylic	
<b>Color</b>	Aluminum	
	<b>Imperial</b>	<b>Metric</b>
<b>Total Tape Thickness</b>	3.8 mil	0.097 mm
<b>Tensile Strength</b>	16 lbs/inch	56 N/20mm
<b>Elongation</b>	5%	
<b>Adhesion to Steel</b>	49 oz/inch	10.73 N/20mm
<b>Insulation Class UL</b>	311°F	155°C
<b>Certifications</b>	UL-510, ISO /IATF/AS: <a href="https://www.nitto.com/us/en/about_us/Americas/americas_certification/">https://www.nitto.com/us/en/about_us/Americas/americas_certification/</a>	
<b>Government Specifications</b>	ASTM E595	

\*CAUTION: The above are typical values and should not be used in writing specifications. Customer is responsible to ensure product meets intended application requirements before approved for use.

### SHELF LIFE & GENERAL STORAGE CONDITIONS

The general shelf life and storage conditions for this Nitto, Inc. product are as follows:

- Shelf life for this product is EIGHTEEN MONTHS FROM DATE OF SHIPMENT.
- Best stored between 50°F-80°F / 10°C-27°C, 25-50% relative humidity; out of direct sunlight.

### PRECAUTION REMINDER

Surface should be clean, free of oil, moisture and dirt before applying. Pressure-sensitive adhesive tapes may require pressure by roller, hand or press when applying. Not doing so may affect the general properties and appearance. Please inspect your surface prior to application; this tape may not adhere well to extremely uneven or distorted surfaces. Please remember to allow adequate time for full adhesive strength.

### WARRANTY INFORMATION

Unless Nitto agrees otherwise in a written agreement signed by Nitto, the warranty information and other terms of sale can be found in the Nitto Terms and Conditions of Sale in the legal section of [www.nitto.com](http://www.nitto.com) and are hereby incorporated by reference.

### TECHNICAL SUPPORT

For questions pertaining to this data sheet or for additional product information; please email us directly at [support.us@nitto.com](mailto:support.us@nitto.com)