

## P-222 AMB

### 2-MIL KAPTON® POLYIMIDE FILM

#### PRODUCT DESCRIPTION

Suited for heavy duty, high & cold temperature applications where a 1-Mil polyimide will not provide adequate strength, cushion or physical protection making our P-222 AMB ideal to use in the various markets.

#### FEATURES

- Superior physical and electrical properties are retained at cold and higher temperatures.
- Aggressive high temperature silicone adhesive is also solvent resistant.
- Tough backing provides the ultimate in tensile strength, tear, puncture and abrasion resistance.
- High dielectric strength for critical insulating requirements.
- Our Kapton® high performance backing ensures consistent quality.

#### PRODUCT CONSTRUCTION

KAPTON® POLYIMIDE FILM
SILICONE, CURED

#### APPLICATION

- Used as the primary insulation in high performance flexible wiring circuit boards.
- Used in heater blanket assemblies in pick up and holding of ferrite cores during wiring into computer memories for anchoring leads & terminal boards and as a lead & terminal board insulating pad.
- When interlined with a polyester liner, P-222 AMB can be die-cut into formable insulators.
- Protection for printed circuit boards during the wave soldering or solder dipping process.

#### PROPERTIES, CERTIFICATIONS AND SPECIFICATIONS

<b>Backing Material</b>	2-Mil Kapton® Polyimide Film	
<b>Adhesive</b>	Silicone, Cured	
<b>Color</b>	Amber	
	<b>Imperial</b>	<b>Metric</b>
<b>Total Tape Thickness</b>	3.7 mil	0.094 mm
<b>Tensile Strength</b>	71 lbs/in	249 N/20 mm
<b>Elongation</b>	90%	
<b>Adhesion to Steel</b>	26 oz/in	5.7 N/20 mm
<b>Dielectric Strength</b>	13,000 volts	13.0 kV
<b>Insulation Class CSA</b>	356°F	180°C
<b>Insulation Class UL</b>	356°F	180°C
<b>Certifications</b>	UL-510 & CSA C-22-2, 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 D5213 TYPE 1, CLASS A (Film only, replaces obsolete MIL-P-46112B)	

\*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)