

P-221 AMB

1-MIL KAPTON® POLYIMIDE FILM

PRODUCT DESCRIPTION

The ultimate in electrical insulation tapes - both thin and highly conformable. An ideal tape for high performance tabbing and holding lithium ion battery cells as well as wave and solder reflow making it ideal to use in the electrical and electronics markets.

FEATURES

- Outstanding puncture, tear and abrasion resistance even at elevated temperatures.
- Uniform unwinding in long length rolls helps promote use in automated applications.
- A high performance thin and conformable Kapton® backing ensures consistent quality.
- Made with an aggressive to adhere, solvent resistant, high temperature enduring adhesive.

PRODUCT CONSTRUCTION

KAPTON® POLYIMIDE FILM
SILICONE, CURED

APPLICATION

- Suited for continuous high temp operating conditions such as splicing high temp insulating materials.
- Used as ground, barrier and phase insulation in small, high performance toroidal coils, high frequency motors, end turn bundling and connection insulation in small motors.
- Recommended for cross over insulation and outer protective wraps on small bobbin and large rotating machine wound coils to bundle conductors and reinforce insulation.
- Applied on printed circuit boards during wave solder masking.

PROPERTIES, CERTIFICATIONS AND SPECIFICATIONS

Backing Material	1-Mil Kapton® Polyimide Film	
Adhesive	Silicone, Cured	
Color	Amber	
	Imperial	Metric
Total Tape Thickness	2.6 mil	0.066 mm
Tensile Strength	36 lbs/in	63 N/10 mm
Elongation	85%	85%
Adhesion to Steel	24 oz/in	2.7 N/10 mm
Dielectric Strength	7,500 volts	7.5 kV
Insulation Class CSA	356°F	180°C
Insulation Class UL	356°F	180°C
Certifications	UL-510 & CSA C-22-2	
Government Specifications	ASTM D5213 TYPE 1, CLASS A (Replaces obsolete MIL-P-46112B)	
Boeing Specifications	BAC 5241	

*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.

GENERAL STORAGE CONDITIONS

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

The following is made in lieu of all warranties, expressed or implied, including the warranty of merchantability and fitness for a particular or ordinary purpose. NITTO DENKO AMERICA warrants that its products meet the applicable specifications at the time of shipment from our warehouse and NITTO DENKO AMERICA's sole obligation shall be to replace any such quantity of the product which fails to meet NITTO DENKO AMERICA's specifications or to issue a credit for such merchandise for a period of six (6) months from the date of shipment.

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