

TECHNICAL DATA SHEET

Updated: February 2012 This datasheet replaces all previous versions



P-222

2-MIL KAPTON® POLYIMIDE FILM

PRODUCT DESCRIPTION

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

FEATURES

- Superior physical and electrical properties are retained at 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 can be die-cut into formable insulators.
- Protection for printed circuit boards during the wave soldering or solder dipping process.

PROPERTIES, CERTIFICATIONS AND SPECIFICATIONS

Backing Material	2-Mil Kapton® Polyimide Film	
Adhesive	Silicone, Cured	
Color	Amber	
	Imperial	Metric
Total Tape Thickness	3.7 mil	0.094 mm
Tensile Strength	71 lbs/in	124 N/10 mm
Elongation	90%	90%
Adhesion to Steel	26 oz/in	2.8 N/10 mm
Dielectric Strength	13,000 volts	13.0 kV
Insulation Class CSA	356 °F	180 °C
Insulation Class UL	356 °F	180 °C
Certifications	UL-510 & CSA C-22-2	
Government Specifications	MIS 31631A Type II/ ASTM D5213 (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.

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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.

NITTO DENKO AMERICA MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

NITTO DENKO AMERICA shall not be liable for any injury, loss or damage, direct or consequential, arising out of or in connection with the use or the inability to use the product, nor shall any recovery of any kind in total against NITTO DENKO AMERICA be greater in amount than the purchased price of the specific material sold causing the alleged loss, damage or injury. Before using, buyer shall be responsible to determine the suitability of the product for his intended use, and buyer assumes all risk and liability in connection therewith. The foregoing may not be altered except by an agreement signed by an officer of NITTO DENKO AMERICA.

Any delays in or failure by either party hereto in the performance of any obligations hereunder shall be excused if and to the extent caused by occurrences beyond such party's reasonable control, including Acts of God, strikes or other labor disturbances, war, whether declared or not, fire, inability to secure transportation or any other cause or causes which cannot be reasonably controlled by such party.