

P-222 AMB

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 AMB 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 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

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 TYPE 1, CLASS A (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.

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 warrants for a period of one (1) year from the date of delivery that products sold to the Customer will be free of defects in workmanship and material. Such warranty will apply only if the Customer notifies Nitto in writing of these defects in reasonable detail, within two (2) weeks after a defect is discovered or should have been reasonably discovered by the Customer. This warranty does not extend i) to products which have been subject to misuse or neglect, ii) to products which have been altered or repaired by personnel other than personnel employed by Nitto or employed by Customer and certified by Nitto or iii) to damage caused, directly or indirectly, by the operation or maintenance performed by any untrained individuals.

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