

P-223 AMB

1-MIL DOUBLE COATED KAPTON® POLYIMIDE FILM

PRODUCT DESCRIPTION

P-223 AMB provides outstanding thermal endurance and tensile strength at colder and elevated temperatures. Being double coated, this product is ideal for holding, die-cutting and splices for insulation layers making it ideal to use in the electrical and electronic applications.

FEATURES

- Outstanding thermal endurance, thin, conformable, yet has excellent puncture and tear resistance.
- Aggressive solvent resistance & non-corrosive nature allow use with ultra-fine magnet wire.
- Double coated silicone tape.
- High dielectric strength permits use in high voltage areas with minimum insulation build-up.

PRODUCT CONSTRUCTION

SILICONE ADHESIVE
KAPTON® POLYIMIDE FILM
SILICONE ADHESIVE
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APPLICATION

- Performs under continuous cold and high temperature operating conditions with great thermal endurance, shear and tensile strength.
- Often laminated to metal foils to help form pressure-sensitive EMI and RFI shields.
- Ideal for bonding and laminating in many applications that require positive dielectric separation.

PROPERTIES, CERTIFICATIONS AND SPECIFICATIONS

Backing Material	1-mil Kapton® polyimide film	
Adhesive	Silicone, cured, inter-lined	
Color	Amber	
	Imperial	Metric
Total Tape Thickness	4.3 mil	0.11mm
Tensile Strength	36 lbs/in	126 N/20mm
Elongation	85%	
Adhesion to Steel	41 oz/in	8.97 N/20mm
Dielectric Strength	8,500 volts	8.5kV
Insulation Class CSA	356°F	180°C
Insulation Class UL	356°F	180°C
Certifications	UL-510 & CSA C-22-2, ISO /IATF/AS: https://www.nitto.com/us/en/about_us/Americas/americas_certification/	
Government Specifications	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.

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 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