Product Data Sheet

Updated: January 2020 This datasheet replaces all previous versions

WS-1

1-MIL POLYIMIDE FILM

PRODUCT DESCRIPTION

The ultimate in electrical insulation tape. Ideal high-performance tape for tabbing and holding Lithium Ion Battery Cells. Also used for wave solder and solder reflow.

FEATURES

- Thin and conformable with outstanding puncture, tear and abrasion resistance at elevated temperatures.
- Aggressive, solvent resistant with good performance in high temperatures.
- Uniform unwind in long length rolls promoting use in automated applications.

PRODUCT CONSTRUCTION

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.
- Protection for printed circuit boards during the wave soldering or solder dipping process.

PROPERTIES, CERTIFICATIONS AND SPECIFICATIONS

Backing Material	1-Mil Polyimide Film	
Adhesive	Silicone, Cured	
Color	Amber	
	Imperial	**Metric**
Total Tape Thickness	2.6 mil	0.066 mm
Tensile Strength	35 lbs/in	122.58 N/20 mm
Elongation	70%	70%
Adhesion to Steel	27 oz/in	5.91 N/20 mm
Dielectric Strength	7,000 volts	7.0 kV
Certifications	ISO /IATF/AS: https://www.nitto.com/us/en/about_us/Americas/americas_certification/	

*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.

RoHS Compliant.

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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 TWELVE MONTHS FROM DATE OF SHIPMENT.
- Best stored between 50°F-80ºF / 10°C-27ºC, 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

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