

LINQTAPE™ PIT0.5S-UT-Series

0.5 mil polyimide film with ultra-thin 0.5 mil silicone adhesive



+ **ULTRA-THIN PRESSURE SENSITIVE SILICONE ADHESIVE**

+ **SUITABLE FOR PERMANENT AND TEMPORARY BONDING**

+ **EXCELLENT INSULATING PROPERTIES**



PRODUCT DESCRIPTION

Insulating tape of 0.5 mil thick polyimide film backing with ultra-thin 0.5 mil pressure sensitive silicone adhesive.



PRODUCT APPLICATION

Used for high temperature electrical applications in semiconductor, smartcard, electronic, automotive and general manufacturing industries.



PRODUCT FEATURES

Suitable for permanent and temporary bonding. Excellent electrical and temperature insulating properties. Can be used in applications up to 260°C (500°F).

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0.5 mil polyimide film with ultra-thin 0.5 mil silicone adhesive



Specialty Chemicals, Plastics & Products



PRODUCT DESCRIPTION

LINQTAPE™ PIT0.5S-UT-Series is a high-temperature resistant polyimide tape. It combines our 0.5-mil (13 micron) thick polyimide film – the generic equivalent of DuPont® Kapton™ HN tape – with an ultra-thin 0.5mil silicone pressure adhesive, while still having excellent adhesion and mechanical strength at high temperatures. **LINQTAPE™ PIT0.5S-UT-Series** is designed for both permanent and temporary bonding in many high temperature applications. These applications can be found in semiconductor, smartcard, electronic, automotive and general manufacturing industries.

LINQTAPE™ PIT0.5S-UT-Series provides an excellent balance of electrical, mechanical, thermal, and chemical properties over a wide range of temperatures. It can be used in applications that may see temperatures up to 260°C (500°F).

LINQTAPE™ PIT0.5S-UT-Series comes in 33 meter (36 yard) rolls of varying widths. LINQTAPE PIT-S polyimide films with silicone adhesive are available in a range of thicknesses, starting from 0,5 mil (12.7µm) thickness and up. Custom thicknesses are available upon request.



PRODUCT APPLICATION



► Applications

- High adhesion to wide range of substrates
- Ideal for wafer dicing and die cutting
- Temporary bonding of thermocouples for oven profiling
- Bonding of devices prior to solder reflow
- Splicing of Insulation layers
- Masking in high temperature powder applications
- Gold finger masking
- Insulating circuit boards and coils
- Wave solder masking tape
- Insulation wrapping of coils, transformers and capacitors.

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PRODUCT FEATURES

TYPICAL PROPERTIES	UNIT	VALUE
Color		Amber
Adhesion Type		Silicone
Film (Backing) Thickness		12.7 µm (0.5 mil)
Adhesive Thickness (±10-15% tolerance)		±12.7 µm (±0.5 mil)
Total Thickness		±25.4 µm (±1 mil)
Adhesion to Steel	N/25mm oz/in	2.2 8.0
Tensile Strength	N/25mm lbs/in	44.5 10.0
Elongation	%	>40
Dielectric Strength	Volts	>3000
Insulation Class		180 (H)
UL-94 Flammability Rating Polyimide Backing Adhesive Layer		V-0 No
Temperature Resistance	°C °F	260 500

▶ PRODUCT CROSS-SECTION



A Polyimide Film: 12.7 µm

B Silicone Adhesive Layer: 12.7µm

▶ PRODUCT NOMENCLATURE

PIT: Polyimide Tape / Film

0.5: 0.5 mil Backing Thickness

S: Silicone Adhesive

UT: Ultra-Thin 0.5 mil Adhesive Thickness

STORAGE AND HANDLING

LINQTAPE™ PIT0.5S-UT-Series is supplied in rolls and should be kept in a cool (10°C – 25°C) dry place (40% – 75% humidity) away from direct sunlight or temperature extremes. Once removed from packaging it should be protected against dust and other impurities.

DATA RANGES

The data contained herein may be reported as a typical value and/or range values based on actual test data and are verified on a periodic basis.

The above figures are typical material properties only and are not to be used for product specification purposes. To generate a specification for this product, please contact our Quality Manager and request a copy of the current stock specification. The information and recommendations supplied in this document are believed to be accurate but no guarantee of their accuracy is made; they are for guidance only and should not be construed as a warranty. All implied warranties are expressly disclaimed, including without limitations any warranty of merchantability and fitness for use. It is recommended that purchasers before using this product conduct their own tests to determine whether the product is suitable for their particular purposes under their own operating conditions.



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