

LINQTAPE™ PIT1N-CR-Series

1 mil high temperature corona resistant polyimide film



+ HIGH TEMPERATURE RESISTANT FILM

+ LOW DIELECTRIC CONSTANT AND WATER ABSORPTION

+ EXCELLENT CORONA RESISTANCE



PRODUCT DESCRIPTION

High temperature and corona resistant insulating film of 1 mil thick polyimide film.



PRODUCT APPLICATION

Used for application where corona is a concern like transformers, electrical rotating machines, traction motors, generators, high-temperature or high voltage coils.



PRODUCT FEATURES

Corona resistant polyimide film with excellent electrical and temperature insulating properties. Can be used in applications up to 400°C (752°F).



PRODUCT DESCRIPTION

LINQTAPE™ PIT1N-CR Series is a high performance, high-temperature resistant polyimide film designed specifically to withstand the damaging effect of Corona. It is used in transformers, electrical rotating machines, traction motors, generators, high-temperature or high voltage coils and other insulation application where corona is a concern.

LINQTAPE™ PIT1N-CR Series polyimide film not only maintains its excellent physical, electrical, thermal, mechanical, and chemical properties, but also has good corona resistance and thermal conductivity. At a voltage stress of 20KV/mm (500 V/mil), LINQTAPE™ PIT1N-CR has a life endurance of many hundreds of times the standard PIT1N film.

LINQTAPE™ PIT1N-CR Series Film comes in 33 meter (36 yard) length rolls of varying widths. The base polyimide film (backing) thickness is 1 mil ($25.4 \pm 2\mu\text{m}$) thick. Custom thicknesses are available upon request.



PRODUCT APPLICATION



► Applications

- Traction motors
- Transformers
- Generators
- Electrical rotating machines
- Insulating magnet wire
- Insulating circuit boards and coils
- Insulating applications where corona is a concern

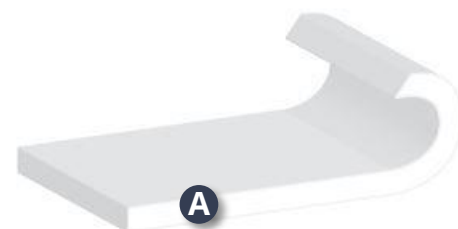




PRODUCT FEATURES

TYPICAL PROPERTIES	UNIT	VALUE
Color	-	Amber
Film (Backing) Thickness	µm (mil)	25.4 µm (5mil)
Corona resistance at 1kV at 20kHz; 90±2°C	hr	>80
Dielectric Strength	kV/mm V/mil	>200 >5080
Dielectric Constant @48-62 HZ	-	<3.9
Dissipation factor @48-62 HZ	-	<0.0035
Surface Resistivity	Ω/sq	10 ¹⁵
Volume Resistivity	Ω*cm	10 ¹⁵
Density	g/cc	1.51
Tensile Strength Machine Direction (MD) Transverse Direction (TD)	Mpa MPa	>135 >135
Elongation at rupture	%	>40
Temperature Resistance	°C °F	260 500
UL-94 Flammability Rating*		V-0

▶ PRODUCT CROSS-SECTION



A Polyimide Film: 25.4µm

▶ PRODUCT NOMENCLATURE

PIT: Polyimide Tape / Film

1: 1 mil Backing Thickness

N: No Adhesive

CR: Corona Resistant

**NOTE: Since UL classification must be tested for every unique film backing, thickness and adhesive combination, the listed UL rating is only an expected outcome if this material were to be tested. Please contact CAPLINQ to discuss options for obtaining UL certification*

STORAGE AND HANDLING

LINQTAPE™ PIT1N-CR-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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