

## P-422 NAT

### 2-MIL PTFE FILM TAPE

#### PRODUCT DESCRIPTION

P-422 has unsurpassed dielectric strength in volts-per-mil, coupled with outstanding thermal rating and conformability. This tape is perfect for insulating connections in high voltage coils and power cables.

#### FEATURES

- Chemically inert with excellent high temperature resistance.
- Operates over a wide range of temperatures: 250°F to 500° F/ 121.1°C to 260°C.
- Resists destruction from most chemicals, including acids, solvents, fuels, and most alkalies.
- Economical while still exhibiting high performance features.

#### PRODUCT CONSTRUCTION

PTFE FILM
CURED SILICONE

#### APPLICATION

- High temperature capabilities make P-422 ideal for use in the cure process of composite parts, as a release wrap on rollers in paper and textile mills and food processing plants, release ply on molds in the plastics and chemical industries and is suitable for use in high heat autoclave applications in the aerospace market.
- Recommended for use as an anti-vibration cushion, a gasket for flanges, joints and clamp connectors and as a high temperature release tape surface on heat sealer bars and rollers.
- Used to provide a slick surface for the quick movement of materials and/or reduce equipment wear.

#### PROPERTIES, CERTIFICATIONS AND SPECIFICATIONS

<b>Backing Material</b>	PTFE Film	
<b>Adhesive</b>	Cured silicone	
<b>Color</b>	Gray	
	<b>Imperial</b>	<b>Metric</b>
<b>Total Tape Thickness</b>	3.9 mil	0.1 mm
<b>Tensile Strength</b>	28 lb./in.	49 N/10 mm
<b>Elongation</b>	133%	133%
<b>Adhesion to Steel</b>	26 oz./in.	2.8 N/10 mm
<b>Dielectric Strength</b>	10,500 Volts	10.5 kV
<b>Insulation Class CSA</b>	356°F	180°C
<b>Insulation Class UL</b>	356°F	180°C
<b>Certifications</b>	UL-510 & CSA C-22-2	
<b>Government Specifications</b>	ASTM E595/ ASTM D2686/ CID-A-A-59474C Type I, Class 1(Replaces obsolete MIL-I-23594C Type I, Class 1)	
<b>Boeing Specifications</b>	BAC 5034 Type IV/ BAC 5157/ BAC 5241/ BAC 5332/ BAC 5548/ BAC 5597/ BAC 5578	

\*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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IN NO EVENT WILL NITTO BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, OR SPECIAL DAMAGES WHICH ARISE IN CONNECTION WITH THE FAILURE OF, OR DEFECTIVE PERFORMANCE OF, ANY PRODUCT SOLD OR THE BREACH OF WARRANTY EVEN IF NITTO HAD NOTICE OF THE POSSIBILITY HEREOF.

Customer's recovery of any equitable amount or any kind will not be greater than the amount paid for this product. Customer hereby waives all other remedies, statutory or otherwise including the remedies of specific performance or replevin.

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ASA-100 ACCREDITED



Accredited according to  
ASA-100 and FAA AC 00-56B

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888 KAC TAPE  
888 522 8273

UL component Recognition Guide OANZ2, File E20392, CSA C-22.2. RoHS Compliant.

For additional information or support, please visit our website at [www.nittousa.com](http://www.nittousa.com) or call toll free 800-755-8273