

## P-421 NAT

### 5-MIL PTFE FILM TAPE

#### PRODUCT DESCRIPTION

P-421 is an extremely durable tape with low friction making it ideal for use in aerospace, transportation, processing and electrical applications.

#### FEATURES

- Operates in high temperature applications and has a high dielectric strength.
- The PTFE backing helps to reduce friction creating slick surfaces helping materials move faster.
- Impervious to most chemical including acids, solvents, fuels and most alkalies.

#### PRODUCT CONSTRUCTION

|                |
|----------------|
| PTFE FILM      |
| CURED SILICONE |

#### APPLICATION

- The ideal tape wherever a low friction surface is required to help speed up the movement of materials reducing equipment wear, such as in roller protection.
- High temperature applications with medium gauge magnet wires in larger sized components.
- Anti-vibration cushion, a gasket for flanges, joints and clamp connectors and as a high temperature release surface on heat sealer bars and rollers.
- Prevents electrolytic corrosion of dissimilar metals and to help mask parts placed in chemical cleaning or electroplating solutions.

#### 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> | 6.8 mil   | 0.17 mm       |
| <b>Tensile Strength</b>     | 66 lbs/in   | 231 N/20 mm   |
| <b>Elongation</b>           | 143%  |               |
| <b>Adhesion to Steel</b>    | 37 oz/in  | 8.1 N/20 mm   |
| <b>Dielectric Strength</b>  | 17,800 volts  | 17.8 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, ISO /IATF/AS:<br><a href="https://www.nitto.com/us/en/about_us/Americas/americas_certification/">https://www.nitto.com/us/en/about_us/Americas/americas_certification/</a> |               |
| <b>Specifications</b>       | <a href="https://www.nitto.com/us/en/products/aerospace/AerospaceSpecList_NA/">https://www.nitto.com/us/en/products/aerospace/AerospaceSpecList_NA/</a>   |               |

\*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 TWENTY FOUR 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](http://www.nitto.com) and are hereby incorporated by reference.

### PRODUCT SUPPORT

For questions pertaining to this data sheet or for additional product information; please email us directly at [support.us@nitto.com](mailto:support.us@nitto.com)