

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

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

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