AEROSPACE
Nitto leads the industry with a commitment to consistent quality, reliability and value; a commitment that is vital in the aerospace and defense related industries. Our focused, yet diversified product lines, worldwide manufacturing, technical sales and product development experience provide us with worldwide recognition for quality and technology.

Rest assured that we can provide solutions for your most demanding pressure sensitive tape requirements.
Why Choose Nitto?

**Extensive Technical Expertise**
Nitto has extensive experience in what we consider a core market: supplying high-quality pressure-sensitive products that meet the stringent demands and numerous specifications of the aerospace industry.

**Long-Standing Industry Experience**
Working together with our customers, we are continuously supplying and developing new products for fly-away as well as non-flying applications. Whether you are involved with manufacturing or maintaining fixed wing, rotary, commercial, military aircraft, missiles, space craft or other aerospace systems, we can help.

**Global Reach**
With our multiple OEM qualified manufacturing locations, as well as our global distribution system, we can guarantee the availability of high quality specialized products, even in critical “Aircraft on the Ground” (AOG) situations.
FLY-AWAY TAPES (FA)
Products used in the construction of an aircraft: cargo bay seaming, moisture barrier, mounting, sound damping, heat shielding, cable harness wrapping, anti-corrosion, electrical and electronic systems, etc.

NON FLY-AWAY TAPES (NFA)
Products used in the manufacturing of an aircraft or its components: composite bonding, flame spray, paint masking/stripping, processing, surface protection, etc.
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WIRE HARNESS

No. 21  VINYL ADHESIVE TAPE

Made of non-rigid polyvinyl chloride, No. 21 is accepted as a high quality general use vinyl tape and widely used in various applications, including wire harness. No. 21 provides excellent electrical insulation and adhesion.

- Excellent electrical insulation which does not deteriorate over time
- Good performance of wrapping and films
- Complies with RoHS and ELV

PRODUCT CONSTRUCTION
- VINYL FILM
- WATER SOLUBLE (LOW VOC) RUBBER ADHESIVE

No. 223S  FLAME RETARDANT VINYL ELECTRICAL TAPE

No. 223S electrical tape is a premium quality flame retardant PVC backed tape. This unique adhesive system is both flame retardant and non-corrosive.

- Low VOC, non-corrosive adhesive
- Flame retardant
- Oil, solvent, and abrasion resistant
- Engineered with the many aerospace applications in mind
- Available in multiple colors

PRODUCT CONSTRUCTION
- VINYL FILM
- RUBBER-BASED ADHESIVE

P-100  ALUMINUM FOIL / GLASS CLOTH

Outstanding radiant heat reflectivity and thermal stability at extremely high temperatures. This product offers suitable protection when wrapped around wires, cables and other instruments for aerospace applications.

- Uniquely combines high tensile strength with flexibility and conformability
- Backing retains physical properties even after thermal degradation of the silicone adhesive into an insulating layer
- Easy to apply in most applications by hand or with automated machine taping equipment

PRODUCT CONSTRUCTION
- ALUMINUM FOIL
- LAMINATION COATING
- GLASS CLOTH
- SILICONE ADHESIVE

P-212 WHT  7.5 MIL GLASS CLOTH

High thermal rating combined with superior solvent resistance and flame retardancy make P-212 WHT an excellent choice for demanding applications.

- Superior conformability ideal for high temperature cable harnesses and connection insulating applications
- Excellent edge tear resistance
- Offers superior solvent resistance

PRODUCT CONSTRUCTION
- GLASS CLOTH
- SILICONE ADHESIVE

SPECIFICATIONS

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www.nittousa.com
P-212HD WHT
10 MIL GLASS CLOTH

This thicker version of P-212 WHT offers superior dielectric strength, flame retardancy and excellent high temperature performance.
- Provides superior edge tear, puncture, and abrasion resistance
- Offers excellent solvent resistance
- High thermal rating, outstanding conformability and flame retardancy ideally suited for high temperature cable harnesses and connection insulating applications

PRODUCT CONSTRUCTION
- GLASS CLOTH
- SILICONE ADHESIVE

SPECIFICATIONS
- BOEING: BAC 5153, BAC 5157, BAC 5317, BAC 5412
- FAR: FAR 25.853
- GOVERNMENT: MIL-I-19166C

P-221 AMB
1 MIL KAPTON® POLYIMIDE FILM

The ultimate in electrical insulation tapes. This product is thin, highly conformable, has outstanding puncture, tear and abrasion resistance even at elevated temperatures.
- Outstanding puncture, tear and abrasion resistance even at elevated temperatures
- Uniform unwinding in long length rolls helps promote use in automated applications
- A high performance thin and conformable Kapton backing ensures consistent quality
- Made with an aggressive to adhere, solvent resistant, high temperature enduring adhesive

PRODUCT CONSTRUCTION
- KAPTON POLYIMIDE FILM
- CURED SILICONE

SPECIFICATIONS
- BOEING: BAC 5241
- GOVERNMENT: ASTM D5213 TYPE 1, CLASS A (Replaces obsolete MIL-P-46112B)

P-222 AMB
2 MIL KAPTON POLYIMIDE FILM

Suited for heavy duty, high temperature applications where a 1-mil polyimide will not provide adequate strength or physical protection.
- Superior physical and electrical properties are retained at higher temperatures
- Aggressive high temperature silicone adhesive is also solvent resistant
- Tough backing provides the ultimate in tensile strength, tear, puncture and abrasion resistance
- High dielectric strength for critical insulating requirements
- Our Kapton high performance backing ensures consistent quality

PRODUCT CONSTRUCTION
- KAPTON POLYIMIDE FILM
- CURED SILICONE

SPECIFICATIONS
- GOVERNMENT: ASTM D5213 TYPE 1, CLASS A (Replaces obsolete MIL-P-46112B)

P-223 AMB
1 MIL DOUBLE COATED KAPTON POLYIMIDE FILM

P-223 AMB provides outstanding thermal endurance and tensile strength at elevated temperatures. Being double coated, this product is ideal for die-cutting and splices for insulation layers.
- Outstanding thermal endurance, thin, conformable yet has excellent puncture and tear resistance
- Aggressive solvent resistant adhesion & non-corrosive nature permitting use with ultra-fine magnet wire
- Perfect double coated tape where both surfaces in a laminating/bonding application are silicone treated
- High dielectric strength permits use in high voltage areas with minimum insulation build-up
- Available with easily removable polyester inter-liner

PRODUCT CONSTRUCTION
- SILICONE ADHESIVE
- KAPTON POLYIMIDE FILM
- SILICONE ADHESIVE
- LINER

SPECIFICATIONS
- GOVERNMENT: ASTM D5213 TYPE 1, CLASS A (Replaces obsolete MIL-P-46112B)

* Kapton is a registered trademark of E.I. Du Pont de Nemours and Company Corporation.
**P-224 AMB**

**1 MIL KAPTON POLYIMIDE FILM**

P-224 AMB is a thin, conformable tape with a high thermal rating with exceptionally high dielectric strength and resistance to various solvents and Freon.

- Exhibits unique properties of polyimide: thinness, conformability, tear resistance and high adhesion
- Resistance to various solvents & Freon
- High performance Kapton backing ensures consistent quality
- Well suited in continuous high temperature

**SPECIFICATIONS**

**BOEING**

SCGM63016

**GOVERNMENT**

ASTM D5213 TYPE 1, CLASS A (Replaces obsolete MIL-P-46112B)

**PRODUCT CONSTRUCTION**

KAPTON POLYIMIDE FILM

ACRYLIC ADHESIVE

**P-421 NAT**

**5 MIL PTFE FILM TAPE**

P-421 NAT is a heavy-duty tape that fulfills ultra-high dielectric strength requirements and high temperature use with high to medium gauge magnet wire in larger components.

- Cured silicone adhesive allows for operation over a wide temperature range: 250°F to 500°F
- PTFE backing provides a low coefficient of friction, providing a high abrasion resistance for your wire harness applications
- Impervious to most chemical attacks, including acids, solvents, fuels and most alkalies

**SPECIFICATIONS**

**BOEING**

BAC 5034-4 TYPE VII, CLASS 2

BAC 5153

BAC 5157

BAC 5158

**GOVERNMENT**

CID-A-A-59474C TYPE I, CLASS 4 (replaces obsolete MIL-I-23594C Type 1, Class 4)

**PRODUCT CONSTRUCTION**

PTFE FILM

CURED SILICONE ADHESIVE

**P-422 NAT**

**2 MIL PTFE FILM TAPE**

P-422 NAT has unsurpassed dielectric strength in volts-per-mil, coupled with outstanding thermal rating and conformability. This tape is ideal for bundling wires and is listed on numerous OEM and military specifications.

- Chemically inert with excellent high temperature resistance
- Operates over a wide range of temperatures: 250°F to 500°F
- Impervious to most chemical attacks, including acids, solvents, fuels and most alkalies
- Economical with high performance features. Well suited in continuous high temperature

**SPECIFICATIONS**

**BOEING**

BAC 5034-4 TYPE VII, CLASS 2

BAC 5153

BAC 5157

BAC 5158

BAC 5241

**GOVERNMENT**

ASTM D2686

ASTM E595

CID-A-A-59474C TYPE I, CLASS 1 (replaces obsolete MIL-I-23594C Type 1, Class 1)

**PRODUCT CONSTRUCTION**

PTFE FILM

CURED SILICONE ADHESIVE

**P-423 NAT**

**2 MIL BONDABLE PTFE FILM TAPE**

P-423 NAT has outstanding bonding ability without a liner. Bondable backing maintains the anti-stick property of conventional PTFE film for uses requiring the coating to wet out and adhere to tape surface.

- Provides unsurpassed dielectric strength for its thickness over the widest range of temperatures for high voltage insulation
- Excellent conformability
- Tough, high abrasion and tear resistance

**SPECIFICATIONS**

**BOEING**

BAC 5153

**GOVERNMENT**

ASTM D2686

CID-A-A-59474C TYPE II CLASS 1 (replaces obsolete MIL-I-23594C)
**P-424 NAT**

P-424 NAT is an extra heavy-duty version of P-422 NAT. This tape has excellent high and low temperature capabilities, and is ideal for die-cut insulators.
- Operates effectively over a wide temperature range of 250° to 500° F because of its cured silicone adhesive
- Impervious to most chemical attacks, including acids, solvents, fuels and most alkalies
- Chemically inert
- PTFE backing provides a low coefficient of friction, which makes for a slick, slippery surface that promotes the quick movement of materials

**SPECIFICATIONS**

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<th>Boeing</th>
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<tr>
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<td>5034-4 TYPE VII, CLASS 2</td>
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</table>

**PRODUCT CONSTRUCTION**

- Glass Cloth
- Acrylic Adhesive
- Liner

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**P-430 NAT**

P-430 NAT has an aggressive solvent-resistance acrylic adhesive that offers superior adhesion levels to most surfaces. It also has excellent Freon resistance and outstanding conformability.
- Chemically inert
- Offers even and smooth unwind. Easy to dispense and easy to use
- Great initial tack on damp surfaces and is especially effective on steel
- Excellent solvent and fuel resistance
- Strips cleanly and easily; leaves no adhesive residue
- Prevents abrasion, rubbing, squeaking or wearing of adjacent metallic, ceramic or plastic materials
- Provides outstanding conformability when used on curved or irregular surfaces

**SPECIFICATIONS**

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<tr>
<th>Product</th>
<th>Government</th>
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<tbody>
<tr>
<td>P-430</td>
<td>ASTM E595</td>
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</tbody>
</table>

**PRODUCT CONSTRUCTION**

- Glass Cloth
- Acrylic Adhesive

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**P-629 SERIES**

**CARGO PIT SEAM TAPE**

Provides flame-retardant barrier over Tedlar® (PVF) cargo pit panel seams.
- Bright white glass cloth backing blends well with Tedlar (PVF) cargo liner panels
- P-629 offers bright white glass cloth that blends well with cargo liner panels and has a blue PE liner for ease of use
- Glass cloth backing, conformable over contoured surfaces like mechanical fasteners as well as abrasion resistant
- Acrylic adhesive bonds well to both new and worn Tedlar (PVF) cargo liner panels
- Formulated without penta, octa, or deca Bromated Diphenyl Ether according to EU directive 2003/11/EC regarding Council Directive 76/769/ECC
- Environmental benefits due to a formulation that avoids the use of heavy metals such as Antimony Trioxide
- Available printed with FAR 25.853, 25.855 and ABD 0031 specification designations and paper interliner
- Available in skip-slit version (P-629SL) for ease of application
- Removes cleanly without leaving residue

**SPECIFICATIONS**

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**PRODUCT CONSTRUCTION**

- Glass Cloth
- Acrylic Adhesive
- Skip-Slit Liner

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*Tedlar is a registered trademark of E.I. Du Pont de Nemours and Company Corporation.*
**P-50**

**MULTI-PURPOSE DOUBLE-COATED CLOTH TAPE**

P-50 is a heavy duty conformable double-coated cloth tape designed for honeycomb milling, industrial holding and mounting applications.

- **Combines a heavy high-tack adhesive on both sides with an extremely durable cloth backing to provide excellent strength and superior conformability**
- **Ideal for application on rough, irregular surfaces**
- **Remains unaffected by oils commonly used in a variety of milling operations**
- **Removes cleanly after milling**

**PRODUCT CONSTRUCTION**

<table>
<thead>
<tr>
<th>Rubber/Resin Adhesive</th>
<th>Cotton Cloth</th>
<th>Rubber/Resin Adhesive</th>
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<tr>
<td>Boeing</td>
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**P-51**

**FLAME RETARDANT CARPET TAPE**

P-51 is a FAA approved flame-retardant double-sided cloth tape to attach aircraft carpet to floor panels, attach galley and lavatory flooring materials, attach placards and signs, and repair aircraft seat cushions.

- **Meets requirements of FAR 25.853, 12 second vertical burn test**
- **Application-specific adhesive system holds carpet firm to floorboards yet removes cleanly during carpet removal.**
- **Cloth backing allows for good adhesion to wide variety of carpet backings**
- **Hand tearable**
- **Light-weight**
- **Compatible with both fiberglass and graphite floor board panels**

**PRODUCT CONSTRUCTION**

<table>
<thead>
<tr>
<th>Rubber/Resin Adhesive</th>
<th>Cotton Cloth</th>
<th>Rubber/Resin Adhesive</th>
<th>Liner</th>
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**SPECIFICATIONS**

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<tr>
<th>FAR</th>
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**P-55 / P-55B**

**FLAME RETARDANT DOUBLE COATED CLOTH TAPE**

P-55 is a high performance flame retardant double coated cloth backed tape. It was engineered as a highly conformable carpet installation tape that maintains both Airbus and Boeing specification approvals.

- **High performance rubber adhesive provides quick stick properties but superior bonding properties that improve with age**
- **Cloth backing provides excellent strength and superior conformability**
- **Adhesive bonds well to the cloth backing offering minimal residue during removal helping improve productivity during maintenance and repair**
- **Available in natural white (P-55) and in black (P-55B)**

**PRODUCT CONSTRUCTION**

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11611-MB

**POLYURETHANE MOISTURE BARRIER TAPE**

11611-MB is typically used on floor panels creating a barrier to prevent moisture and or liquids from being able to cause corrosion to the aircraft/rotorcraft body. The liner and high elongation allows for ease of workability and the white color assists with easy identification.

- Liner for ease of handling
- 16 mil backing with a 2 mil adhesive to prevent the passing of moisture to prevent corrosion
- Available in widths up to 24 inches
- ROHS and REACH complaint

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<td>Backing</td>
<td>Polyester liner</td>
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</table>

**SC-140**

**AEROSEAL® ANTI-CORROSION TAPE**

SC-140 is a light-weight, single-coated tape which incorporates a PTFE backing and helps protect against the corrosion of substrates in an aircraft. It is primarily applied to the top of support beams below floor panels. Unlike other products in the marketplace, AeroSeal®'s single-coated construction helps prevent damage to floor panels during heavy checks and offers corrosion protection even throughout extended 3000 hour salt-spraying testing.

- Designed for protection against corrosion in floor beams and other areas such as galleys, lavatories, door sills, stringers, access panels, and more
- Exhibits strong adhesion to most substrates
- Smooth PTFE backing allows for easy installation and easy workability
- May be die cut to any shape for various applications

**SPECIFICATIONS**

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<td>Carrier</td>
<td>Adhesive</td>
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</table>

**P-306**

**VINYL PROTECTION TAPE**

P-306 is a heavy-duty, lead free, PVC film tape engineered specifically for use as a moisture barrier on aircraft floor panels in galleys, hatches, and lavatories. P-306 also provides a corrosion resistant covering of pipes and conduits.

- High-tack, high-hold adhesive is resistant to bacteria and fungus and provides an effective and lasting seal against moisture, corrosion, electrolytic action and chemical attack
- High degree of bonding between adhesive and PVC minimizes shrinkage – permits narrow overlap settings when tape is applied with automatic equipment, which maximizes tape usage and minimizes tape waste
- Easy and uniform release
- Withstands considerable shock without abrasion or puncture

**SPECIFICATIONS**

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**PRODUCT CONSTRUCTION**

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<tr>
<td>Adhesive</td>
<td>Rubber-based adhesive</td>
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**P-306L**

**INTERLINED VINYL PROTECTION TAPE**

P-306L is a heavy-duty, lead free, PVC film tape engineered specifically for use as a moisture barrier on aircraft floor panels in galleys, hatches, and lavatories. P-306L also provides a corrosion resistant covering of pipes and conduits. P-306L is interlined for easy wide-width application.

- Backing retains physical properties even after thermal degradation of the silicone adhesive into an insulating layer of silica
- Easy to apply in most applications by hand or with automated machine taping equipment
- Liner allows P-306L to be die cut. Compatible with both fiberglass and graphite floor board panels
P-12L ALUMINUM / CLOTH LAMINATED TAPE

P-12L tape is an economical and effective tape engineered for sound and vibration damping applications. P-12L is equally good for “quick fix” repairing in transit of sheet metal panels when the metal is gouged or ripped. P-12L also be used for aircraft stripping operations where more strength is needed than standard foil products can offer. Our P-12L comes standard with a liner for ease of processing when die-cutting and unwinding for wide width rolls.

- Effectively combines the superior protective and sealing advantages of metallic materials with the ease of handling and application characteristics of pressure-sensitive products
- Primarily used for aircraft fuselage and interior panels
- Solvent resistant, waterproof and weather resistant
- Cloth element of tapes’ backing provides superb cushioning effect, making them ideal for sound and vibration damping applications
- Waterproof and weather resistant

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N32 FINE LINE MASKING TAPE

N32 is a 6 mil vinyl film with natural rubber adhesive that can be used for fineline masking applications.

- Resistant towards the sun, water, oil, acid, alkalies and corrosive metals
- Highly conformable as well as abrasion and tear resistant making it very durable
- Available in 7 colors including clear and OSHA colors

PRODUCT CONSTRUCTION
VINYL FILM
NATURAL RUBBER/RESIN ADHESIVE

N34 PREMIUM FINE LINE MASKING TAPE

N34 is a premium quality PVC back tape with a versatile rubber adhesive system. This tape is engineered for a variety of aerospace applications including fineline masking and part identification.

- Sturdy 6 mil vinyl which provides great durability under heavy wear and traffic conditions.
- Highly conformable to many surface types
- Abrasion resistant and non-fading
- Provides great resistance to abrasion, oil, grease, solvents and UV
- Immersion in water will not cause disintegration or loosening
- The 7 N34 available colors can be used to satisfy OSHA marking requirements
- Due to N34’s elongation properties, it works well in most fine line/speed line masking operations

PRODUCT CONSTRUCTION
PVC FILM
RUBBER-BASED ADHESIVE

P-100 ALUMINUM FOIL / GLASS CLOTH

A high temperature heat resistant masking tape in convenient, easy-to-apply form. Outstanding radiant heat reflectivity and thermal stability at extremely high temperatures for short periods of time.

- Uniquely combines high tear and tensile strength with flexibility and conformability. The result: a high temperature EMI/RFI shielding tape in convenient, easy-to-use form
- Backing retains physical properties even after thermal degradation of the silicone adhesive into an insulating layer of silica
- Easy to apply in most applications by hand or with automated machine taping equipment. Can be die-cut to create masking dots for repetitive masking applications

PRODUCT CONSTRUCTION
ALUMINUM FOIL
LAMINATION COATING
GLASS CLOTH
SILICONE ADHESIVE

P-306 VINYL PROTECTION TAPE

P-306 is a heavy-duty, lead free, PVC film tape that works well as a masking tape for various media blasting applications.

- High-tack, high-hold adhesive
- High degree of bonding between adhesive and PVC minimizes shrinkage
- Easy and uniform release
- Withstands considerable shock without abrasion or puncture
- Uniquely combines high tear and tensile strength with flexibility and conformability

PRODUCT CONSTRUCTION
PVC FILM
RUBBER-BASED ADHESIVE

SPECIFICATIONS
BOEING
BAC 5307
BAC 5412
**P-306L INTERLINED VINYL PROTECTION TAPE**

P-306L is a heavy-duty, lead free, PVC film tape that works well as a masking tape for various media blasting applications.

- **Back**ing retains physical properties even after thermal degradation of the silicone adhesive into an insulating layer of silica
- Liner contributes to easy application, by hand or with automated taping machine
- Liner enables product to be die-cut

**PRODUCT CONSTRUCTION**

- PVC FILM
- RUBBER-BASED Adhesive
- LINER

---

**P-703 HIGH TEMPERATURE ALL-PURPOSE MASKING TAPE**

A solvent-resistant crepe paper masking tape coated with a natural rubber adhesive specifically designed for high temperature paint masking applications up to 300°F. Adhesive removes cleanly with no residue or ghosting.

- Good high baking temperature characteristics – withstands repeated temperature cycles up to 300°F up to 1½ hours without mass transfer or slivering upon removal
- Superior aging qualities assure long shelf life
- Resistant to stains and solvents; odor free
- Good elongation – maximum conformability around corners and over uneven surfaces
- Excellent balance of quick-stick and high-hold
- Tape’s smoothness and thinness prevents paint build-up along its edges

**PRODUCT CONSTRUCTION**

- RELEASE COAT
- IMPREGNATED PAPER
- NATURAL RUBBER/RESIN ADHESIVE

**SPECIFICATIONS**

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**P-790 PAPER MASKING TAPE**

A general purpose crepe paper masking tape coated with a synthetic rubber adhesive designed for a vast array of everyday, room temperature masking and holding applications. Adhesive removes cleanly with no residue.

- **Our most economical masking tape**
- Offers high-hold and high adhesion to a wide range of plastic, metal and wood surfaces
- Adhesive firmly anchored to tape backing, permitting smooth, one piece removal with no adhesive transfer, making P-790 ideal for room temperature paint masking
- Easy to write on – a handy, easy-to-use tool during physical inventory checks

**PRODUCT CONSTRUCTION**

- RELEASE COAT
- IMPREGNATED PAPER
- SYNTHETIC RUBBER/RESIN ADHESIVE

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>SPECIFICATION</th>
<th>GOVERNMENT</th>
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</table>
**P-100 6.8 MIL ALUMINUM FOIL / GLASS CLOTH FOR PLASMA SPRAY**

P-100 is an aluminium foil tape that exhibits outstanding radiant heat reflectivity and thermal stability at extremely high temperatures for short periods of time. This product is an ideal masking tape for plasma spray applications.

- Aluminum foil adds superior reflective and conductive properties in high temperatures
- High tensile strength
- Superior conformability and flexibility
- The backing retains its physical properties even after thermal degradation of the silicone adhesive into an insulating layer of the silica
- Clean removal after high exposure to high heat

**PRODUCT CONSTRUCTION**
- ALUMINUM FOIL
- LAMINATION COATING
- GLASS CLOTH
- SILICONE ADHESIVE

**SPECIFICATIONS**

| BOEING | BAC 5307 TYPE II |
| BAC 5152 |
| BAC 5153 |
| BAC 5157 |
| FAR 25.853 |
| GOVERNMENT | MIL-I-19166C |

**P-212 WHT 7.5 MIL GLASS CLOTH FOR PLASMA SPRAY**

P-212 WHT is a high thermal rating masking tape that has superior solvent resistance and flame retardancy. It is ideal for use in plasma spray applications.

- High thermal rating and flame retardancy
- Superior conformability on most substrates
- Excellent edge tear resistance
- Easy removal

**PRODUCT CONSTRUCTION**
- GLASS CLOTH
- SILICONE ADHESIVE

**SPECIFICATIONS**

| BOEING | BAC 5152 |
| BAC 5153 |
| BAC 5157 |
| FAR 25.853 |
| GOVERNMENT | MIL-I-19166C |

**P-212HD WHT 10 MIL GLASS CLOTH FOR PLASMA SPRAY**

This thicker version of P-212 WHT offers superior dielectric strength, flame retardancy and excellent high temperature performance. It is ideal for use in plasma spray applications.

- Provides superior edge tear, puncture, and abrasion resistance
- Offers excellent solvent resistance
- High thermal rating, outstanding conformability and flame retardancy make P-212HD ideally suited for high temperature cable harnesses and connection insulating applications

**PRODUCT CONSTRUCTION**
- GLASS CLOTH
- SILICONE ADHESIVE

**SPECIFICATIONS**

| BOEING | BAC 5153 |
| BAC 5157 |
| BAC 5317 |
| BAC 5412 |
| FAR 25.853 |
| GOVERNMENT | MIL-I-19166C |
7.4 MIL DOUBLE COATED SPLICING & BONDING TAPE

A highly versatile double-coated tape that boasts super-aggressive adhesion. Designed for a variety of splicing, mounting, holding, laminating, and fastening applications.

- Coated on both sides with an aggressive, synthetic rubber/resin adhesive that makes it ideal for splicing medium-to-heavyweight paper stocks
- Provides high shear strength, high initial tack
- Solvent resistant—will not dissolve when exposed for limited periods to solvents such as MEK, carbon tetrachloride, gasoline or alcohol
- Interliner removes easily, even after exposure to high pressure-laminating operations

**PRODUCT CONSTRUCTION**

<table>
<thead>
<tr>
<th>SYNTHETIC RUBBER/RESIN ADHESIVE</th>
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<td>SYNTHETIC RUBBER/RESIN ADHESIVE</td>
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<td>PAPER RELEASE LINER</td>
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<td>BAC 5034-4 TYPE VII, CLASS 1</td>
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4.7 MIL HIGH TEMPERATURE SILICONE FLASH MASKING TAPE

PS-1 is a multi-purpose, high temperature masking and tabbing tape originally designed for flash masking in the composite bonding industry. The backing is a heavy duty thermally stable polyester film with a high tack, high temperature silicone adhesive.

- Boasts a silicone adhesive that bonds quickly and permanently to silicone-coated surfaces
- Heavy-duty polyester backing eliminates tape puncture and tear
- Adhesive is firmly anchored to backing, which does away with adhesive transfer upon tape removal
- Thermally stable polyester film suitable for continuous use up to 180°C/356°F

**PRODUCT CONSTRUCTION**

| POLYESTER FILM |
| SYNTHETIC RUBBER/RESIN ADHESIVE |
| PAPER RELEASE LINER             |

2.4 MIL HIGH TEMPERATURE SILICONE FLASH MASKING TAPE

PS-2 is a multi-purpose, high temperature masking and tabbing tape originally designed for flash masking in the composite bonding industry. The backing is a thermally stable polyester film with a high tack, high temperature silicone adhesive.

- Boasts a silicone adhesive that bonds quickly and permanently to silicone-coated surfaces
- Polyester backing eliminates tape puncture and tear
- Adhesive is firmly anchored to backing, which does away with adhesive transfer upon tape removal
- Thermally stable polyester film suitable for continuous use up to 180°C/356°F

**PRODUCT CONSTRUCTION**

| POLYESTER FILM |
| SYNTHETIC RUBBER/RESIN ADHESIVE |

ALUMINUM FOIL TAPE

P-11 is a solvent resistant, dead soft aluminum foil tape with a high performance acrylic adhesive engineered for a wide range of composite bonding applications.

- Aggressive, custom-formulated adhesive adheres tightly when smoothed down on work surfaces
- Permits clean and easy removal, with no residue
- Dead soft aluminum foil backing is solvent resistant and provides excellent conformity to irregular surfaces
- Acrylic adhesive/foil backing construction makes for a vapor-tight seal that effectively combats moisture, contamination and corrosion
- Aging is practically non-existent because of the inherent stability of aluminum foil

**SPECIFICATIONS**

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**P-422 NAT**

**2 MIL PTFE FILM TAPE**

P-422 NAT has outstanding thermal rating and conformability, and is suitable for use in high heat autoclave applications.

- Chemically inert with excellent high temperature resistance
- Operates over a wide range of temperatures: 250°F to 500°F
- Impervious to most chemical attacks, including acids, solvents, fuels and most alkalies
- Economical with high performance features. Well suited in continuous high temperature applications.

**SPECIFICATIONS**

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**P-440 NAT/P-440L**

**4 MIL PTFE COATED GLASS CLOTH TAPE**

P-440 NAT is the ideal product for mold release in the composite bonding industry. Use P-440L in applications where a liner or die cutting is required.

- Chemically inert
- High temperature resistance
- Constructed with a resilient and abrasion resistant backing that exhibits markedly better resistance to cut-through cold flow, deformation and shrinkage than unsupported PTFE
- Superior dimensional stability
- Low coefficient of friction makes for excellent non-stick and anti-friction characteristics
- Performs well under humid conditions, resists wrinkling and blistering, and is tear resistant
- Carries a Class 180°C electrical rating

**SPECIFICATIONS**

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**P-703**

**HIGH TEMPERATURE ALL-PURPOSE MASKING TAPE**

A solvent-resistant crepe paper masking tape coated with a natural rubber adhesive specifically designed for high temperature paint masking applications up to 300°F. Adhesive removes cleanly with no residue or ghosting.

- Good high baking temperature characteristics – withstands repeated temperature cycles up to 300°F up to 1½ hours without mass transfer or slivering upon removal
- Superior aging qualities assure long shelf life
- Resistant to stains and solvents; odor free
- Good elongation – maximum conformability around corners and over uneven surfaces
- Excellent balance of quick-stick and high-hold
- Tape’s smoothness and thinness prevents paint build-up along its edges
- Doesn’t highlight on appliance finishes

**SPECIFICATIONS**

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**No. 923S NITOFLON ADHESIVE TAPE**

Nitoflon No. 923S combines a single surface treated silicone adhesive with an orange-colored PTFE base film. No. 923S offers high heat and chemical resistance and clean removal.

- **High Heat Resistance**
- **Superior Tensile Strength**
- **Superior Flame Resistance**

**PRODUCT CONSTRUCTION**

- PTFE FILM
- SILICONE ADHESIVE

**SPECIALTY WINDOW MASKING**

**P-11 / P-11L ALUMINUM FOIL TAPE**

P-11 is a solvent resistant, dead soft aluminum foil tape with a high performance acrylic adhesive engineered for a wide range of aerospace applications including masking.

- Aggressive, custom-formulated adhesive adheres tightly when smoothed down on work surfaces
- Permits clean and easy removal, with no residue
- Dead soft aluminum foil backing is solvent resistant and provides excellent conformability to irregular surfaces
- Acrylic adhesive/foil backing construction makes for a vapor-tight seal that effectively combats moisture, contamination and corrosion
- Aging is practically non-existent because of the inherent stability of aluminum foil
- P-11L offers a paper liner for ease of use when working with wide widths or die cutting precision part, such as window masks

**PRODUCT CONSTRUCTION**

- ALUMINUM FOIL
- ACRYLIC ADHESIVE

**SPECIFICATIONS**

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**P-12L ALUMINUM / CLOTH LAMINATED TAPE**

P-12L tape is an economical and effective tape engineered for chemical stripping operations where more strength is needed than standard foil products can offer. Our P-12L comes standard with a liner for ease of processing when die-cutting and unwinding for wide width rolls and is solvent resistant, waterproof and weather resistant.

- Effectively combine the superior protective and sealing advantages of metallic materials with the ease of handling and application characteristics of pressure-sensitive products
- P-12L offers a paper liner for ease of use when working with wide widths or die cutting precision part, such as window masks

**PRODUCT CONSTRUCTION**

- ALUMINUM FOIL
- LAMINATION COATING
- COTTON CLOTH
- NATURAL RUBBER/RESIN ADHESIVE LINER

**SPECIFICATIONS**

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## N34 PREMIUM FINE LINE MASKING TAPE

N34 is a premium product with a quality PVC backing and a versatile rubber adhesive. N34 has been engineered for a variety of applications with many uses in the aerospace markets.

- **Sturdy 6 mil vinyl which provides great durability under heavy wear and traffic conditions**
- **Highly conformable to many surface types**
- **Abrasion resistant and non-fading**
- **Provides great resistance to abrasion, oil, grease, solvents and UV**
- **Immersion in water will not cause disintegration or loosening**
- **The 7 N34 available colors can be used to satisfy O.S.H.A marking requirements**

### PRODUCT CONSTRUCTION

<table>
<thead>
<tr>
<th>PVC FILM</th>
<th>RUBBER-BASED ADHESIVE</th>
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## PE-3415 TRANSPARENT PE TAPE

Nitto PE-3415 is a premium grade, transparent PE tape coated with an acrylic based pressure sensitive adhesive. This non-halogen tape has excellent chemical and UV resistance, which makes PE-3415 a suitable product for general purpose.

- **Non-halogen Tape**
- **UV resistant**
- **Good weatherability**
- **Good adhesion level**
- **Leaves no residue after removal**
- **Good ageing properties**

### SPECIFICATIONS

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### PRODUCT CONSTRUCTION

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<th>CORONA TREATMENT</th>
<th>PE FILM</th>
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## SPV-202 SURFACE PROTECTIVE MATERIAL FOR PROCESSING

Nitto SPV-202 is a surface protective material that uses a soft PVC film. It is ideal for the protection of metal plates during processing and transportation.

- **Strong adhesive**
- **Good weatherability**
- **Good elongation**
- **Oil resistance for skiving process of aluminum**
- **Leaves no residue after removal**
- **Available in white or black**

### SPECIFICATIONS

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### PRODUCT CONSTRUCTION

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<th>PVC FILM</th>
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## SPV 214 SURFACE PROTECTIVE MATERIAL FOR STAINLESS STEEL

Nitto SPV 214 is a PVC film carrier surface protective material for metal plates. It can be used outside due to its special adhesive.

- **Acrylic adhesive allows outdoor use**
- **Suitable to use during processing of stainless steel plates, aluminum plates, and nameplates**

### SPECIFICATIONS

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<tr>
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SPV 224 SURFACE PROTECTIVE FILM FOR HEAVY PROCESSING

SPV 224 is a surface protection tape with a unique deformation behavior. This product consists of a blue transparent PVC film coated with a pressure sensitive acrylic-based adhesive. For easy unwind, the backing of the PVC-film is coated with a special modified silicone release.

- Excellent deformation behavior
- Excellent weatherability
- Lubricating behavior
- High adhesion level
- Easy unwind
- Recyclable
- Substrate identification and inspection

SPECIFICATIONS

| BOEING BAC 5034-4 TYPE VII, CLASS 1 & 2 |

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SPV 3648F EXTENDED OUTDOOR PROTECTION OF PAINTED SURFACES

Surface protective material that keeps uniformity in color and gloss, for use on painted steel plates. Nitto SPV 3648F is a surface protective material with a polyolefin film carrier.

- Excellent weatherability
- Excellent stability in adhesion over time
- Does not inhibit the curing of most paint when applied over newly finished surfaces

PRODUCT CONSTRUCTION

| RELEASE COAT |
| PVC FILM |
| SYNTHETIC RUBBER-BASED ADHESIVE |

---

SPV 9320 SURFACE PROTECTIVE MATERIAL FOR EXTREMELY ROUGH SURFACES

SPV 9320 is a surface protection tape suitable to protect rough and textured surfaces during light mechanical processes, storage and transportation. This tape consists of a special polyethylene film coated with a pressure sensitive acrylic-based adhesive.

- Rough surface protection
- Low gloss surface protection (10 to 35%)
- Very high adhesion level
- Good wetting behavior
- Good humidity resistance
- Substrate identification and inspection
- Stretch resistant film
- Recyclable

PRODUCT CONSTRUCTION

| ACRYLIC ADHESIVE |
| PE FILM |
### P-412 RIBBON DOPE THREAD SEALANT

P-412 is easy to use and safe to handle. This ribbon dope is not extruded with air resulting in high density.

- Joints sealed with RIBBON DOPE can be disassembled quickly and economically
- Completely inert to virtually all known acids, alkalies, and caustics
- Prevents corrosion when threaded fittings of dissimilar metals are jointed
- Non-toxic - cannot affect food, pharmaceuticals, fuels, or petrochemicals
- Effective over a wide temperature range: -61°F to 300°F (-54°C to 149°C)
- Non-hardening and permanently self-lubricating
- Packaged on a plastic spool in an easy-to-use snap case. Keeps thread sealant dust-free, and protects it from damage in tool cases, shop drawers

**SPECIFICATIONS**

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### P-11 / P-11L ALUMINUM FOIL TAPE

P-11 is a solvent resistant, dead soft aluminum foil tape with a high performance acrylic adhesive engineered for a wide range of aerospace applications including masking.

- Aggressive, custom-formulated adhesive adheres tightly when smoothed down on work surfaces
- Permits clean and easy removal, with no residue
- Dead soft aluminum foil backing is solvent resistant and provides excellent conformability to irregular surfaces
- Acrylic adhesive/foil backing construction makes for a vapor-tight seal that effectively combats moisture, contamination and corrosion
- Aging is practically non-existent because of the inherent stability of aluminum foil
- P-11L offers a paper liner for ease of use when working with wide widths or die cutting precision part, such as window masks

**SPECIFICATIONS**

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### P-100 ALUMINUM FOIL / GLASS CLOTH

A high temperature heat and EMI/RFI shielding tape in convenient, easy-to-apply form. Outstanding radiant heat reflectivity and thermal stability at extremely high temperatures for short periods of time.

- Uniquely combines high tear and tensile strength with flexibility and conformability. The result: a high temperature EMI/RFI shielding tape in convenient, easy-to-use form
- Backing retains physical properties even after thermal degradation of the silicone adhesive into an insulating layer of silica
**P-111 AL**

**ALUMINUM FOIL / CONDUCTIVE ADHESIVE**

Provides the highest EMI/RFI shielding effectiveness available in an aluminum backed, pressure-sensitive adhesive tape. Offers excellent solder ability, highly conformable.

- **Offers high conformability plus excellent solder ability**
- **Outstanding adhesion provided by an insulating, chemically-pure, non-corrosive, solvent and heat resistant thermosetting acrylic adhesive**
- **P-111 AL can be slit from 1/16” and up making this an economical installation solution to many production problems**

**SPECIFICATIONS**
- **GOVERNMENT**
- **ASTM E595**

**PRODUCT CONSTRUCTION**
- ALUMINUM FOIL
- ACRYLIC ADHESIVE
- LINER

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**P-389 CO**

**1 OZ. COPPER FOIL TAPE**

Engineered for EMI/RFI shielding on small electromagnetic components. Bright, clean electro-deposited copper foil is soft annealed for improved conformability.

- **Outstanding adhesion is provided by an insulating, chemically pure, non-corrosive, solvent and heat resistant thermosetting acrylic adhesive**
- **Excellent solderability and high conformability**
- **Slititng can start at 1/16” and up, making this an economical solution for production**

**SPECIFICATIONS**
- **GOVERNMENT**
- **ASTM E595**

**PRODUCT CONSTRUCTION**
- COPPER FOIL
- ACRYLIC ADHESIVE
- LINER

---

**P-391 CO**

**1 OZ. COPPER FOIL CONDUCTIVE**

Engineered for EMI/RFI shielding, ease of die cutting and outstanding adhesion for improved conformability.

- **Outstanding solvent resistance; excellent adhesion; and easy to apply**
- **Coated paper protective interliner makes for easy die cutting**
- **Electro-deposited copper foil backing is soft annealed for superior conformability and excellent solderability**

**SPECIFICATIONS**
- **GOVERNMENT**
- **ASTM E595**

**PRODUCT CONSTRUCTION**
- COPPER FOIL
- ACRYLIC CONDUCTIVE INTERLINED ADHESIVE
- LINER
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<th><strong>SPECIFICATIONS</strong></th>
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**SPECIFICATIONS**

**P-412**

- **GOVERNMENT**: CID-A-A-58092 (replaces obsolete MIL-T-27730A)
- **BOEING**: PS17115

**P-421 NAT**

- **BOEING**: BAC 5034-4 TYPE VII, CLASS 2
- **BAC 5153**: BAC 5157
- **BAC 5158**

**P-422 NAT**

- **BOEING**: BAC 5034-4 TYPE VII, CLASS 2
- **BAC 5153**: BAC 5548
- **BAC 5578**: BAC 5597
- **BAC 5241**

**P-423 NAT**

- **BOEING**: BAC 5153

**P-424 NAT**

- **BOEING**: BAC 5034-4 TYPE VII, CLASS 2

**P-440 NAT**

- **P-440L**: BAC 5153

**P-55**

- **AIRBUS**: ABD 0031, Para 7.3.2 & Para 7.4
- **BOEING**: BMS 5-146A TYPE I, CLASS 1, GRADE A
- **FAR**: FAR 25.853

**P-629**

- **AIRBUS**: ABD 0031, Para 7.3.2 & Para 7.4
- **BOEING**: BMS 5-146A TYPE I, CLASS 1, GRADE A
- **FAR**: FAR 25.853

**P-629AB**

- **AIRBUS**: ABD 0031, Para 7.3.2 & Para 7.4
- **FAR**: FAR 25.853

**P-629PRL**

- **BOEING**: BMS 5-146A TYPE I, CLASS 1, GRADE A
- **FAR**: FAR 25.853

**P-629SL**

- **BOEING**: BMS 5-146A TYPE I, CLASS 1, GRADE A
- **FAR**: FAR 25.853

**P-703**

- **BOEING**: BAC 5034-4 TYPE VII, CLASS 2
- **BAC 5578**
- **BAC 5317**
- **BAC 5336**
- **BAC 5597**

**P-790**


**PE-3415**

- **BOEING**: BAC 5034-4 TYPE VII, CLASS 1

**SC-140**

- **FAR**: FAR 25.853 Appendix F Part 1 (a) (1) (iv)

**SPV-202**

- **BOEING**: BAC 5034-4 TYPE VII, CLASS 1

**SPV-214**

- **BOEING**: BAC 5034-4 TYPE VII, CLASS 1

**SPV 224**

- **BOEING**: BAC 5034-4 TYPE VII, CLASS 1 & 2
Extensive Technical Support

Product Technical Support can help guide you to the product that fits your needs. Expect a response to your technical inquiry by the next business day.

TYPES OF SERVICES

1. DATA SHEETS & BROCHURES
2. PRODUCT EVALUATIONS
3. COMPETITOR CROSSES
4. SAMPLE REQUESTS
5. PRODUCT APPLICATION SUPPORT

CONTACT
support.us@nitto.com

HOURS
8:00am - 5:30pm EST