1. Pressure Sensitive

2. Sew-On

3. Cable Management

4. Specialities

4. Military Solutions

5. Material Handling

6. Packaging
Automotive After Market
- Child restraints and child safety products
- Seat belt protectors
- Straps for control of excess webbing in restraint systems
- Fitting 2-way/CD radios in Police, Emergency and Recreational vehicles
- Floor mats
- Kick panels
- Headliners
- Arm rests

Transportation
- Headliners and other trim panels
- Tonneau covers
- Cargo nets in trucks, SUV’s and on trailers
- Locating mobile telephones
- Dashboard and floor mats
- Inflatable travel pillow
- Car covers
- Seat trim
- Parcel shelf
- Wiring harnesses
- Interior carpets
- Boot carpets

Caravan, Marine & Camping
- Seat covers, boat covers
- Seat cushion and back pads
- Annex flaps, window covers and fly screens
- Securing life jackets and torches
- Boat trim panels/deck head linings
- Fitting Marine and CD radio transceivers and depth sounders
- ONE-WRAP® Brand fasteners or VELSTRAP® Brand straps to keep ropes tidy

Furniture, Textile & Upholstery
- Pelments for curtains and blinds
- Close overlaps in curtains
- Tie backs
- Austrian drapes
- Lounge suite cushions and covers
- Arm rests
- Horticulture ties for plants, young trees, vines, etc

Clothing Apparel & Footwear
- Fixing protective cushioning in stalls
- Horse blanket, saddle pads and nappies
- Riding boots and gaters
- Heat or cold packs for injuries
- Sizing strips in helmets
- Stationery products, presentation folders
- Leather and vinyl luggage
- Saddlery
- Camera cases and carry bags
- Pizza delivery pouches

Exhibition Signage & Display
- Signage lightboxes
- Point of Purchase display stands to walls and partitions
- VELTEX® Brand loop laminates on display boards
- Temporary redirection signs
- Real estate photos and posters
- Carpet and similar product samples to display cards
- Exhibitions stands for products, posters, etc

Data Cabling
- LAN, television and telephone systems, scientific instruments, sound equipment and electrical products
- Battery packs
- Fixing modules in telephone exchanges
- Cable and lead management for sound, lighting and monitors
- Optical fibres, cables and cords
- Stage and film sets and storage
- Instrument and equipment cases
- Shock absorbing floor panels
- Fixing of speakers and lighting equipment in position

Medical
- Fastening for surgical gowns, masks, footwear and operating table mattresses
- Protective padding for limbs
- VELSTRETCH® Brand elastic loop for fastening with flexibility
- Cervical collars, hot and cold packs
- Lumbar supports in work situations
- Patient lifting appliances
- VELSTRAP® Brand straps for securing padding easily
- Orthopedic products: back braces, splints, prosthetic appliances, etc

Farming & Agriculture
- Identity straps for commercial animals
- Window or door closures for portable green houses
- Horticulture ties for plants, young trees, vines, etc
Office / Stationery
- Bundling pencils and cords on desks
- Storing knit knacks in PRESS-LOK® bags
- Cord management
- Sticking up posters with VELCOIN®

Warehouse & Materials Handling
- Closure for reusable envelopes and boxes
- Covers for electronic or computer control units
- Cable and lead management for office equipment
- Hold downs for telephones or other office equipment
- Mounting removable notice boards on walls
- Product and batch ID labels on pallet racks and shelves
- LOGISTRAP® to replace shrink wrap and other ‘in warehouse’ strapping methods
- Mounting computer components and other equipment on walls, under counters or desks

Outdoor Sports & Leisure
- Kidney belts for boxing, wrestling, weight lifting, etc
- Waterproof pouches and wallets, rifle bags and camera cases
- Ski, spray and hunting jackets and vests
- Netball skirts and board shorts
- Gymnasium mats and other equipment
- Swimming and spa covers
- Wrist, knee and ankle braces/protectors
- Closures on running or specialized footwear
- Bicycle carry bags/panniers
- Bicycle helmets
- Climbing and hiker backpacks
- Sleeping bag closures and hood attachments

Ecommerce & Retail
- Displaying posters
- Managing cord control using ONE-WRAP® ties
- VELTEX® fabric soft display boards

Plumbing & Air Conditioning
- Holding down conduit
- Securing cables together
- Securing PVC pipes to truck trays

Hydraulics
- Bundling sleeves
- Bundling hoses for neat and easy storage
- Straps allow hose and tubes to expand and contract in changing conditions and can be used again and again with no loss of strength

Building & Construction
- Clean fixation for any kind of soft and hard floors
- Ease of installation, allowing floor replacement and removal
- Suitable for rolls, planks or tiles
- Alternatives for temporary or permanent installations
- Easy and fast (dis) mounting, extremely useful during maintenance tasks
- Attachment of building envelope components
- Increased performance in combination with mechanical systems (nailing, screwing, stapling)
- Different closure choices to maximize the performance or minimize the thickness

Educational / Arts and Crafts
- Soft and hard toys
- Remote control aircraft and cars
- Doll clothing
- Puppets

Packaging
- Office folders
- Gift and promotional boxes
- PRESS-LOK® bags for storing accessories
0172 ADHESIVE
A general purpose, pressure sensitive acrylic adhesive with superior bond strength and high temperature performance. It is excellent on a wide range of substrates with very good adhesion on high-energy surfaces. 0172 can be used in automotive, computer, medical and other markets. 0172 has moderate tack, achieving full bond strength in 24 hours. When cured, 0172 features mild moisture resistance.

VELCRO® Brand
0172/Hook 88
- Base material: Polyamide
- Standard colours: Black, White, Beige
- Standard widths (mm): 19, 25, 50
- Standard length: 25 metres
- Suggested mating component: Loop 1000
- Cycle life: High
- Custom Cutting: Available

Main Applications: Apparel, cable management, panels, orthopaedics, seat trim, aviation, furnishing, straps

VELCRO® Brand
0172/Loop 1000
- Base material: Polyamide
- Standard colours: Black, White, Beige
- Standard widths (mm): 19, 25, 50
- Standard length: 25 metres
- Suggested mating component: Hook 1000
- Cycle life: High
- Custom Cutting: Available

Main Applications: Apparel, cable management, panels, orthopaedics, seat trim, aviation, furnishing, straps

SPECIAL FEATURES:
- Adhesive 0172 - General purpose uses, Operating temperature range from -35°C to 65°C, Acrylic-based, pressure sensitive adhesive, Moderate tack - full bond strength in 24 hours
- CAN BE USES IN APPLICATIONS SUCH AS: POS Displays, Automotive, signage, Wall brackets, Computer housing, Sports equipment, Envelopes, For many general manufacturing, fastening requirements

HOOK 88 AND LOOP 1000 CLOSURE PERFORMANCE
<table>
<thead>
<tr>
<th>CYCLE LIFE AVERAGE</th>
<th>SHEAR STRENGTH LENGTH WISE. psi average</th>
<th>SHEAR STRENGTH WIDTH WISE. psi average</th>
<th>CURVED SHEAR ON 11.5&quot; RADIUS psi average</th>
<th>TENSION OR LATCHING EFFECT psi average</th>
<th>PEEL STRENGTH LENGTH WISE. psi average</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.98 psi left after 1000 cycles</td>
<td>10.5 psi</td>
<td>28.0 psi</td>
<td>1.97 psi</td>
<td>0.54 psi Left after 1000 cycles</td>
<td></td>
</tr>
</tbody>
</table>

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0175 ADHESIVE

0175 Adhesive is a high performance, high temperature, pressure sensitive adhesive specially formulated for use on rigid and flexible vinyl products. 0175 Adhesive has a good resistance to plasticiser migration and a wide temperature operating range. 0175 Adhesive is ideal for use in automotive, camping and outdoor, computer, medical and other markets. 0175 Adhesive has moderate tack, achieving full bond strength in 24 hours.

**SPECIAL FEATURES:** Adhesive 0175 - Acrylic based, pressure sensitive, Moderate tack - full bond strength in 24 hours, Specially formulated for rigid and flexible vinyl. Operating temperature range from -35°C to 65°C, Good resistance to plasticiser migration

**RECOMMENDED SUBSTRATES:** Vinyl – flexible, ABS, Aluminium, Glass, Vinyl – rigid, Acrylic, painted steel, Polycarbonate

**FOR BEST RESULTS:** Surface should be clean, dry and free of oils. Use clean wiping material with isopropyl alcohol (rubbing alcohol) to free surface of contaminants and allow to dry. Peel release liner from back of tape and apply. Be careful not to touch adhesive with your fingers. To maximize adhesive performance, substrate and tape should be applied in conditions of 18-24°C, Allow 24 hours for full bond strength. VELCRO® Brand adhesive products will bond to most metals, glass, wood, card, ceramics and plastics.

VELCRO® Brand Hook 88

- Base material: Polyamide
- Standard colours: Black, White
- Standard widths (mm): 25, 50
- Standard length: 25 metres
- Suggested mating component: Loop 1000
- Cycle life: High
- Custom Cutting: Available

**Main Applications:** Dashboards, Handbags, Binders, Automotive accessories, Eye glasses cases, POS displays, Tool pouches, Computer components

VELCRO® Brand Loop 1000

- Base material: Polyamide
- Standard colours: Black, White
- Standard widths (mm): 25
- Standard length: 25 metres
- Suggested mating component: Hook 88
- Cycle life: High
- Custom Cutting: Available

**Main Applications:** Dashboards, Handbags, Binders, Automotive accessories, Eye glasses cases, POS displays, Tool pouches, Computer components

**HOOK 88 AND LOOP 1000 PERFORMANCE**

<table>
<thead>
<tr>
<th>Cycle Life</th>
<th>Shear Strength</th>
<th>Curved Shear</th>
<th>Tension Or Latching Effect</th>
<th>Peel Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length Wise</td>
<td>psi average</td>
<td>psi average</td>
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<td>psi average</td>
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<tr>
<td>Width Wise</td>
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<tr>
<td>Radius 11.5 cm”</td>
<td>psi average</td>
<td>psi average</td>
<td>psi average</td>
<td>psi average</td>
</tr>
<tr>
<td>0.8 psi left after 2000 cycles</td>
<td>0.98</td>
<td>0.74</td>
<td>10.5</td>
<td>0.46</td>
</tr>
<tr>
<td>20 psi</td>
<td>1.97</td>
<td>28.0</td>
<td>6.5</td>
<td>0.54</td>
</tr>
<tr>
<td>0.8 psi left after 1000 cycles</td>
<td>0.54</td>
<td>20 psi</td>
<td>6.5 psi</td>
<td></td>
</tr>
</tbody>
</table>

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VELCRO® Brand VELCOIN® / PRE-FORMED DOTS

VELCOIN® Brand pre-formed dots:
Are handy for a multitude of uses. Just peel them off & stick them on. Great for smaller indoor fastening jobs. Ideal for: Lights, posters, pictures and holding up tools. Commercial applications for example: sizing pads inside bicycle helmets, Display systems Stationary systems Holding car mats in place. Locating appliances. Self-adhesive VELCOIN® Brand pre-formed dots can be bonded to a wide range of items, for a multitude of purposes for fastening or displaying. Product samples Demonstration items Tools and folders Notices, Merchandise units Office items Packaging Posters. Just apply some VELCOIN® Brand dots and some imagination to your smaller, fastening problems and you’ll have your perfect solution.

FOR BEST RESULTS: Surface should be clean, dry and free of oils. Use clean wiping material with isopropyl alcohol (rubbing alcohol) to free surface of contaminates and allow to dry. Peel release liner from back of tape and apply. Be careful not to touch adhesive with your fingers. To maximize adhesive performance, substrate and tape should be applied in conditions of 18-24°C. Allow 24 hours for full bond strength. VELCRO® Brand adhesive products will bond to most metals, glass, wood, card, ceramics and plastics.

Note: Before using adhesives in production, the user should test the adhesive to determine the suitability for the intended use.

VELCRO® Brand VELCOIN®
• Base material: Polymaide
• Standard colours: Black, White, Beige
• Standard widths (mm): 16, 22, - Black & White, 22 - Beige
• Standard Length: 22.8 metre rolls of either hook or loop
• Number Dots Per Roll: 1200 & 900
• Adhesive: 0172
• Suggested mating component: Hook 88 & Loop 1000
• Cycle life: High

Main Applications: Apparel, office folders, stationery, rigid packaging & trays.

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5-11 David Lee Road, Hallam VIC 3803
Tel: (+61) 3 9703 2466
Fax: (+61) 3 9703 2505
1300 VELCRO (1300 835 276)
FREE CALL 1800 337 024
Web: www.velcro.com.au
E: AUS_Sales@velcro.com

AUSTRALIA & NEW ZEALAND PRODUCT LINE

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0119 ADHESIVE

A general purpose, pressure sensitive acrylic adhesive with superior bond strength and high temperature performance. It is excellent on a wide range of substrates with very 0119 is a rubber-based high performance adhesive specially formulated for use on polypropylene and polyethylene substrates. 0119 readily adheres onto plastics such as those used in medical product applications and display board items such as fluted plastic board. It performs in a wide range of operating temperatures and has good initial tack for quick setting. In addition, it features excellent static shear and aggressive peel. Please note: This is a rubber-based adhesive and therefore not suitable for vinyl applications.

VELCRO® Brand

0119/Hook 88

- Base material: Polyamide
- Standard colours: Black, White
- Standard widths (mm): 25, 50
- Standard length: 25 metres
- Suggested mating component: Loop 1000
- Cycle life: High
- Custom Cutting: Available

Main Applications: Medical products, AFO’s (Ankle Foot Orthoses), Leg splints, Display boards, Wrist splints, Fluted plastic boards, Binders, Prosthetics

VELCRO® Brand

0119/Loop 1000

- Base material: Polyamide
- Standard colours: Black, White
- Standard widths (mm): 25, 50
- Standard length: 25 metres
- Suggested mating component: Hook 88
- Cycle life: High
- Custom Cutting: Available

Main Applications: Medical products, AFO’s (Ankle Foot Orthoses), Leg splints, Display boards, Wrist splints, Fluted plastic boards

SPECIAL FEATURES: Adhesive 0119 - Rubber based, pressure sensitive, Operating temperature range from -35°C to 44°C, Excellent static shear, Good initial tack, Full bond strength in 24 hours, Aggressive peel. RECOMMENDED SUBSTRATES: Steel – painted, LDPE, Polyethylene, Acrylic, Plywood, Polypropylene, Aluminium, Polycarbonate, Urethane TPU Film HDPE, ABS, Polyester * May not adhere to all types of substrates. Tested is recommended. FOR BEST RESULTS: Surface should be clean, dry and free of oils. Use clean wiping material with isopropyl alcohol (rubbing alcohol) to free surface of contaminants and allow to dry. Peel release liner from back of tape and apply. Be careful not to touch adhesive with your fingers. To maximize adhesive performance, substrate and tape should be applied in conditions of 18-24°C. Allow 24 hours for full bond strength. VELCRO® Brand adhesive products will bond to most metals, glass, wood, card, ceramics and plastics.

HOOK 88 AND LOOP 1000 CLOSURE PERFORMANCE

<table>
<thead>
<tr>
<th>Cycle Life Average</th>
<th>Shear Strength Length Wise psi average</th>
<th>Shear Strength Width Wise psi average</th>
<th>Curved Shear psi average</th>
<th>Tension or Latching Effect psi average</th>
<th>Peel Strength Length Wise psi average</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.8 psi left after 1000 cycles</td>
<td>0.98 psi</td>
<td>0.74 psi</td>
<td>10.5 psi</td>
<td>1.97 psi</td>
<td>1.97 psi</td>
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<tr>
<td></td>
<td>0.8 psi left after 1000 cycles</td>
<td>1.97 psi</td>
<td>0.46 psi</td>
<td>0.54 kg/25mm Width</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hook 88 AND LOOP 1000 CLOSURE PERFORMANCE</th>
</tr>
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<tr>
<td>Cycle Life Average</td>
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<tr>
<td>12.8 psi left after 1000 cycles</td>
</tr>
<tr>
<td>0.8 psi left after 1000 cycles</td>
</tr>
</tbody>
</table>
VELCRO® Brand

0140 ADHESIVE / FOR PERMANENT BONDING

**0140 ADHESIVE**
Adhesive 0140 is a non-tacky urethane pre-coat applied to the back of VELCRO® Brand tape. It is moisture resistant and ideal for permanent bonding. 0140 is instantly activated by applying acetone or MEK (Methyl Ethyl Ketone). This is best applied with a small brush. It is RF dielectric/weldable and can also be ultrasonically welded onto porous substrates. It is heat activated around 60°C. 0140 performs in a wide range of operating temperatures, achieving ultimate bond strength in 24 hours.

**SPECIAL FEATURES:** Adhesive 0140 is a non-tacky, urethane pre-coat. Ultimate bond strength for permanent, bonding applications. Operating temperature range from -40°C to 121°C. Moisture resistant.

**RECOMMENDED SUBSTRATES:** ABS, Plywood – raw and lacquered. Painted wallboard, Polyethylene, Metals, Polycarbonate, Leather, Acrylic. May not adhere to all types of substrates. Testing is recommended.

**BONDING METHOD:** If the substrate is a non-porous smooth surface, apply the recommended solvent activator freely to the back of the pre-coated VELCRO® Brand tape with a brush or sponge applicator and allow the adhesive to become tacky. Proper tackiness occurs when the adhesive clings to a finger placed on it. When tacky, position the tape on a cleaned substrate using finger pressure to smooth tape. This is most important on edges and corners. Follow a few minutes later with additional hand pressure to ensure a complete bond. Let dry overnight or speed up drying with 60°C heat source. Please be sure to use appropriate safety precautions when using a solvent activator (i.e. proper ventilation, gloves, etc).

VELCRO® Brand

0140/Hook 88
- Base material: Polyamide
- Standard colours: Black, White
- Standard widths (mm): 25, 50
- Standard length: 22.8 metres
- Suggested mating component: Loop 1000
- Cycle life: High
- Custom Cutting: Available

Main Applications: Canvas products, Vinyl binders, Banners, Marine applications, Display boards, PVC, Tarpaulins, Glasses cases, Outdoor Signage, Fluted plastic boards

VELCRO® Brand

0140/Loop 1000
- Base material: Polyamide
- Standard colours: Black, White
- Standard widths (mm): 25
- Standard length: 22.8 metres
- Suggested mating component: Hook 88
- Cycle life: High
- Custom Cutting: Available

Main Applications: Canvas products, Vinyl binders, Banners, Marine applications, Display boards, PVC, Tarpaulins, Glasses cases, Outdoor Signage, Fluted plastic boards

**HOOK 88 AND LOOP 1000 CLOSURE PERFORMANCE**

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</tr>
</thead>
<tbody>
<tr>
<td><strong>Average</strong></td>
<td><strong>Length Wise.</strong></td>
<td><strong>Width Wise.</strong></td>
<td><strong>Radial.</strong></td>
<td><strong>Length Wise.</strong></td>
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<td>psi average</td>
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<td>28.0 psi</td>
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<td>28.0 psi</td>
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<td>0.46</td>
<td>0.46</td>
<td>0.46</td>
<td>0.46</td>
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<tr>
<td>0.54 kg/25mm</td>
<td>0.54 kg/25mm</td>
<td>0.54 kg/25mm</td>
<td>0.54 kg/25mm</td>
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<tr>
<td>1.6 psi</td>
<td>1.6 psi</td>
<td>1.6 psi</td>
<td>1.6 psi</td>
<td></td>
</tr>
</tbody>
</table>

**0.8 psi left after 1000 cycles**

**H&A**
VELCRO® Brand
8224 ADHESIVE HOOK & LOOP / FLAME RETARDANT HOOK AND LOOP

8224 ADHESIVE
A fastening system specifically developed for industries where protection against fire is paramount. Flame retardant pressure sensitive adhesives are suitable for use in applications requiring certification to industry specifications, such as aerospace, military and automotive.

VELCRO® Brand
8224/Hook 88
- Base material: Polyamide
- Standard colours: Black, Beige
- Standard width (mm): 20, 25, 50 - Black & 50 - Beige
- Standard length: 22.8 metres
- Suggested mating component: Loop 1000
- Cycle life: High
- Custom Cutting: Available

Main Applications: Ideal for: Fire fighters turn out garments, Aircraft and automotive upholstery, Train seats, Defence forces vehicles and equipment.

VELCRO® Brand
8224/Loop 1000
- Base material: Polyamide
- Standard colours: Black, Beige
- Standard widths (mm): 20, 25, 50 - Black & 50 - Beige
- Standard length: 22.8 metres
- Suggested mating component: Hook 88
- Cycle life: High
- Custom Cutting: Available

Main Applications: Ideal for: Fire fighters turn out garments, Aircraft and automotive upholstery, Train seats, Defence forces vehicles and equipment.

FLAME RETARDANT HOOK AND LOOP FASTENERS CAN BE MANUFACTURED TO COMPLY WITH:

SPECIAL FEATURES: A rubber-based pressure sensitive adhesive formulated to meet Boeing Specification BMS 8-285. High track – quick setting. Achieves 80% bond strength in about an hour; full strength in 30 hours, Temperature operating range -40°C to 71°C, Certified to BMS 8-285 60 second burn test for nylon hook and loop and 12 second burn test for polyester hook and loop.

<table>
<thead>
<tr>
<th>Cycle Life</th>
<th>Shear Strength Length Wise</th>
<th>psi average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hook 88</td>
<td>10.5 psi</td>
<td>20 psi</td>
</tr>
<tr>
<td>Loop 1000</td>
<td>28 psi</td>
<td>6.5 psi</td>
</tr>
</tbody>
</table>

| Hook 88 and Loop 1000 Closure Performance
<table>
<thead>
<tr>
<th>Cycle Life</th>
<th>Shear Strength Length Wise</th>
<th>psi average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hook 88</td>
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<td>20 psi</td>
</tr>
<tr>
<td>Loop 1000</td>
<td>28 psi</td>
<td>6.5 psi</td>
</tr>
</tbody>
</table>

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### PRESSURE SENSITIVE ADHESIVES

#### Adhesives
VELCRO® Brand products are available with a variety of adhesives to best fit your application. Before using an adhesive for your project, it should be tested to determine the suitability of the product for its intended use. Please note that this guide covers our most popular adhesives - contact us if you have special requirements.

#### Types of Adhesive Systems

- **Woven VELCRO® Brand** tapes have a binder coat which firmly locks hooks and loops in place and helps prevent fraying of the tapes when cut. Due to this coating, many commercially available adhesives will not readily adhere to the back of woven tape. Therefore, the use of a VELCRO® Brand pre-coated adhesive backing is recommended.

- **Pressure Sensitive Adhesives** are popular because of the ease of application. Simply remove the release liner and press the VELCRO® Brand tape in place. Pressure sensitive adhesives should always be considered semi-permanent bonds. VELCRO® Brand pressure sensitive adhesives have been engineered to offer specific performance characteristics to meet different requirements.

- **Solvent and Heat Activated Adhesives** are recommended for applications where a more permanent bond is desired. Dry to the touch, these adhesives become tacky upon activation using solvents.

#### ACYRILIC:
Acrylic pressure sensitive adhesives offer good shear strength, environmental resistance, and have good adhesion to most metal and medium/high surface energy plastics.

- **VELCRO® Brand Adhesive 0172**: Formulated for high temperature performance and superior bond strength, Moderate tack - medium set up. Full bond strength in 24 hours, Temperature operating range -35°C to 65°C

- **VELCRO® Brand Adhesive 0175**: Formulated for vinyl substrates, Moderate tack - medium set up, Full bond strength in 24 hours, Temperature operating range -35°C to 65°C

#### SYNTHETIC RUBBER:
Rubber-based pressure sensitive adhesives have good adhesion to low surface energy substrates. They should be used indoors, at room temperature.

- **VELCRO® Brand Adhesive 0140**: Activated by MEK, acetone, or MCL. Can also be used with liquid adhesive or, ultrasonically welded when porous substrates exist. Ultimate bond strength is achieved in 24 hours, Temperature operating range -40°C to 121°C

- **FIRE RETARDANT**: Fire retardant pressure sensitive adhesives are suitable for use in applications requiring certification to industry specifications. Only available to Boeing companies. All others will be certified to equivalent FAR 25.862 vertical burn tests.

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### ADHESIVES GUIDE

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<th>SUBSTRATE</th>
<th>ACYRILIC</th>
<th>RUBBER</th>
<th>FIRE RETARDANT</th>
<th>SOLVENT ACTIVATED</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABS</td>
<td>✔</td>
<td>✔</td>
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</tr>
<tr>
<td>ACRYLIC SHEET</td>
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<td>✔</td>
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<tr>
<td>ALUMINUM</td>
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<tr>
<td>CERAMIC TILE</td>
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<td>PAPERBOARD</td>
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<tr>
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<tr>
<td>POLYCARBONATE (PERSPEX)</td>
<td>✔</td>
<td>✔</td>
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<td></td>
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<tr>
<td>POLYVINYL IDIPO</td>
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<tr>
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<tr>
<td>POLYSTYRENE</td>
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<td>FAIR</td>
<td></td>
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<td>HOPE</td>
<td>✔</td>
<td>✔</td>
<td></td>
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<td>URETHANE FILM</td>
<td>✔</td>
<td>✔</td>
<td></td>
<td></td>
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<tr>
<td>POWDERCOATED SURFACES</td>
<td>FAIR</td>
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<td></td>
</tr>
</tbody>
</table>

**LEGEND:**
- **FAIR**: RECOMMENDED
- **FAIR - LOW TO SATISFACTORY**: FAIR
- **NR**: NOT RECOMMENDED

**Surfaces must be clean, dry and free of oils. The recommended cleaning agent is Isopropyl Alcohol (IPA). Adhesive should be applied at ambient temperature 18-20°C.**

Please Note: This table is intended as a guide. It is always recommended that a trial be conducted to determine the suitability of the adhesive.
Semipermanent Pressure Sensitive Adhesives
PRESSURE SENSITIVE ADHESIVES ARE POPULAR BECAUSE OF THEIR EASE OF APPLICATION - SIMPLY REMOVE THE RELEASE LINER AND PRESS THE TAPE IN PLACE.

Application method
- Peel away
- Place
- Press

Permanent Heat or Solvent Activated Adhesives
HEAT AND SOLVENT ACTIVATED ADHESIVES PROVIDE THE STRONGEST BOND TO THE TAPE ITSELF AND CAN BE MADE READY FOR INSTANT BONDING BY MANY METHODS OF APPLICATION

Mechanical
- Ultrasonics
- High frequency
- Hot air
- Ironing

Chemical
- Solvent (acetone, M.E.K.)

SURFACE ENERGY
- High
- Medium
- Low

ADHESIVES
<table>
<thead>
<tr>
<th>Adhesive Type</th>
<th>Acrylic Emulsion</th>
<th>Hot Melt Rubber</th>
<th>Polyurethane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>-34°C to 60°C</td>
<td>-34°C to 43°C</td>
<td>-40°C to 121°C</td>
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<tr>
<td>Heat Resistance</td>
<td>107°C</td>
<td>85°C</td>
<td>121°C</td>
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- Federal Aviation Regulations 25.863(A)
- Motor Vehicle Safety Standard FMVSS 302
- Mil Spec AA 55126 B
- AMTRAK Spec. No. GEN-S-014-001 Rev. B

*A certificate of analysis is available upon request with each order.*
VELCRO® Brand ADHESIVES / RECOMMENDATIONS

Surface Preparation:
It is important that all surfaces be thoroughly cleaned before applying VELCRO® Brand adhesives. All cleaning agents should be tested prior to use to ensure the cleaning agent will not have adverse effects on the substrate. In some circumstances, isopropyl alcohol (rubbing alcohol) may be a sufficient cleaning agent. Citrus cleaners are not recommended.

Your Plant Conditions:
It is important to work in an area that is clean and free from dirt and dust in the air. The adhesive should be applied at room temperature, with the ideal room temperature between 18°C and 24°C and relative humidity 40% to 65%.
Please note, the lower the humidity, the better the bond. Excessive cold, heat, dirt and relative humidity will be detrimental to your adhesive performance.
If adhesive must be applied at temperatures lower than 18°C, warm the substrate and the tape to elevate temperature prior to applying. This may help the adhesive cure.
If using VELCRO® Brand 0172 adhesive, allow full curing time before loading or cycling. It is also essential to have a well-ventilated area to remove fumes and odours for the safety and comfort of your employees, and as required by your local and OSHA standards.

Limitations
VELCRO® Brand adhesives are not recommended for submersion in water or on plastics with high concentrations of plasticisers. Adhesives are not washable or dry cleanable. Recommendations for Different Types of Surfaces
Here are some additional recommendations to improve the surface area of a variety of substrates for better adhesion.

Porous Substrate
This type of surface is one that requires a primer or sealer to provide a suitable bonding area. Allow the treated surface to dry completely before applying your VELCRO® Brand adhesive-backed tape. Better adhesion may be obtained when used with a liquid adhesive.

Non-Porous Substrate
VELCRO® Brand Adhesive 0140 is suitable for non-porous substrates. Better adhesion may also be obtained when used together with a liquid adhesive.

Smooth Surfaces
Improved bonding can be achieved by roughing up a smooth surface before applying adhesive.

Weak Substrate
Paper is a good example of a weak substrate. If the surface is weak, reinforcing the substrate with additional coverage of a liquid adhesive may improve performance.
SEW-ON

Sewing (lengthwise cut): Due to the general weave construction of VELCRO® Brand hook and loop tapes, the possibility of fraying can occur if the tapes are slit or cut in a lengthwise direction. It is for that reason that the tapes are woven with a 2mm selvage along both edges. VELCRO® Brand fasteners are not limited by directional forces. While there are differences, you can generally use them in any alignment. VELCRO® Brand hook tape is the most durable part of the fastening closure and consequently "harsher" to the touch. The loop, or soft, part of the closure should be facing more delicate or sensitive areas such as human skin or textured fabrics. Standard fastening application requires stitching along all four edges of each tape component, forming a "box" stitch (Fig. 1). We strongly advise against sewing along two edges without completing the box stitch. Where extra strength may be needed, you may need to secure the tape with a cross stitch (Fig. 2), or by stitching additionally straight down the middle of the tape (Fig. 3). Nipping the corners of the tape enhances its appearance and eliminates sharp points.

VELCRO® Brand

Sew-On/Hook 88

- Base material: Nylon Construction
- Standard Colours: Black, White, Beige, Light Grey, Slate Grey, Brown, Olive Green, Coachman Green, Yellow, Navy, Royal Blue, Red, Pinkglow, Greenglow, Yellow/glow, Orange glow
- Standard Widths mm: 16, 20, 25, 38, 50, 100
- Standard Length: 25 metres
- Standard Mating Component: Loop 1000
- Cycle Life: High
- Custom Cutting: Available

Main application: Clothing alterations, school bags, uniforms, wallets, curtains, shoes.

VELCRO® Brand

Sew-On/Loop 1000

- Base material: Nylon Construction
- Standard Widths mm: 16, 20, 25, 38, 50, 100
- Standard Colours: Black, White, Beige, Light Grey, Slate Grey, Brown, Olive Green, Coachman Green, Yellow, Navy, Royal Blue, Red, Pinkglow, Greenglow, Yellow/glow, Orange glow
- Standard Length: 25 metres
- Standard Mating Component: Hook 88
- Cycle Life: High
- Custom Cutting: Available

Main application: Clothing alterations, school bags, uniforms, wallets, curtains, shoes.
VELCRO® Brand

SEW-ON LOOP 2000 / ULTRA SOFT AND UN-NAPPED LOOP

LOOP 2000:
Loop 2000 can be sewn onto any fabric by hand or machine. Use with HTH Hook for a secure closure every time. HTH Hook is a low-profile, low-linting hook with superior grip, making it ideal for use with Loop 2000. Both are washable and reusable for outstanding performance from a great team.

FOR BEST RESULTS: Sitting (lengthwise cut): Due to the general weave construction of VELCRO® Brand hook and loop tapes, the possibility of fraying can occur if the tapes are slit or cut in a lengthwise direction. It is for that reason that the tapes are woven with a 2mm selvage along both edges. VELCRO® Brand fasteners are not limited by directional forces.

While there are differences, you can generally use them in any alignment. VELCRO® Brand hook tape is the most durable part of the fastening closure and consequently "harsher" to the touch. The loop, or soft, part of the closure should be facing more delicate or sensitive areas such as human skin or textured fabrics.

Standard fastening application requires stitching along all four edges of each tape component, forming a "box" stitch (Fig. 1). We strongly advise against sewing along two edges without completing the box stitch. Where extra strength may be needed, you may need to secure the tape with a cross stitch (Fig. 2), or by stitching additionally straight down the middle of the tape (Fig. 3). Nipping the corners of the tape enhances its appearance and eliminates sharp points.

VELCRO® Brand

Sew-On/Loop 2000

• Base material: Un-Napped loop surface
• Standard Colours: Black & White
• Standard Widths (mm): 25, 50
• Standard lengths: 25 metre rolls
• Suggested mating component: HTH Hook
• Cycle Life: High
• Custom Cutting: Available

Main applications: Apparel, blood pressure cuffs, transportation interiors, mop heads, other applications requiring low shrinkage
Strap & body support, Cushioning and Padding

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VELCRO® Brand

SEW-ON HTH HOOK / HIGH STRENGTH-LOW LINT HOOK

ULTRA-MATE® Brand HTH HOOK

ULTRA-MATE® Brand HTH fasteners offer performance properties never before available with ordinary hook and loop fasteners. They are moulded hook fasteners engineered to provide superior closure with a variety of loops, and to meet specific performance characteristics in conjunction with a range of polymers, each of which provides its own distinctive features. As such, each HTH hook style differs from each other. Each has its own specific characteristics and advantages to better meet your specific fastening requirements.

VELCRO® Brand

Hook 705

- Base material: Nylon/Without backing
- Standard colours: Black and White
- Standard widths (mm): 25, 50
- Adhesive Backing: Sew on and adhesive 0119
- Standard lengths: Hook 705 Sew On: 45.6 metres, 705 Adhesive: 22.8 metres
- Suggested mating component: Loop 1000
- Melting Point: 173°C
- Cycle Life: High

Main Applications: Outerwear (jackets, ski pants), Footwear, signage, straps

VELCRO® Brand

Hook 711

- Base material: Polyethylene / Without backing
- Standard colours: Black and White
- Standard widths (mm): 25, 50
- Adhesive Backing: Sew on and adhesive 0119
- Standard lengths: Hook 705 Sew On: 45.6 metres, 705 Adhesive: 22.8 metres
- Suggested mating component: Loop 1000
- Melting Point: 173°C
- Cycle Life: High

Main Applications: Surgical gowns, sterilizable and disposable goods

Benefits

- Molded plastic hook is available in a range of resins (nylon, polyester, vinyl, polyethylene, polypropylene) to suit your particular application.
- Molded hook shapes are engineered for superior performance with VELCRO® Brand woven and knit loops.
- Most VELCRO® Brand HTH products are available wide and can also be converted into die-cut shapes and cut or scored pieces.
- Variety of backings available including sewable scrim, weldable and heat sealable coatings, and pressure sensitive adhesives.
VELCRO® Brand

Hook 805

- Base material: Nylon / Without backing
- Standard colours: Black
- Standard widths (mm): 305mm
- Standard lengths: 91.44 metres
- Suggested mating component: Loop 1000
- Melting Point: 173°C
- Cycle Life: High / Medium

Main Applications: Outerwear (ski pants), gators, bracing

Hook 845

- Base material: Nylon / Without backing
- Standard colours: Black
- Standard widths (mm): 305mm
- Standard lengths: 182.88 metres
- Suggested mating component: Loop 1000
- Melting Point: 173°C
- Cycle Life: High / Medium

Main Applications: Outwear, polishing discs, headgear, orthopedic braces, helmets, moulding, fabricated straps. Other applications requiring high sewing resistance, high frequency weldability, high cycle life closure.
VELCRO® Brand

SEW-ON / FIRE RETARDANT

Flame retardant sew-on hook and loop
A fastening system specifically developed for industries where protection against fire is paramount. FLAME RETARDANT HOOK AND LOOP FASTENERS CAN BE MANUFACTURED TO COMPLY WITH Federal Aviation Regulations Part 25.853(A) Mil-Spec. AA55126 Rev B, Motor Vehicle Safety Standard FMVSS 302 AMTRAK Spec. No. GEN-S-014-001, A certificate of analysis is available upon request with each order.

VELCRO® Brand

Fire Retardant/Hook 88

- Base material: Nylon
- Standard colours: Black, White, Beige, Olive Green, Navy
- Standard length: 25 metre
- Suggested matting component: Loop 1000
- Cycle life: High
- Custom Cutting: Available

Main Applications: Aircraft and automotive upholstery Train seats Safety clothing Defence forces Combat clothing Airforce flying suits Firemen's turnout coats

VELCRO® Brand

Fire Retardant/Loop 1000

- Base material: Nylon
- Standard colours: Black, White, Beige, Olive Green, Navy
- Standard length: 25 metre
- Suggested matting component: Hook 88
- Cycle life: High
- Custom Cutting: Available

Main Applications: Aircraft and automotive upholstery, Train seats, Safety clothing, Defence forces Combat clothing, Airforce flying suits, Firemen’s turnout coats

**HOOK 88 AND LOOP 1000 CLOSURE PERFORMANCE**

<table>
<thead>
<tr>
<th>Cycle Life</th>
<th>Shear Strength LENGTH WISE. psi average</th>
<th>Shear Strength WIDTH WISE. psi average</th>
<th>Curved Shear on 11.5 cm RADIUS psi average</th>
<th>Tension or Latching Effect psi average</th>
<th>Peel Strength LENGTH WISE. psi average</th>
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</thead>
<tbody>
<tr>
<td>0.8 psi after 1000 cycles</td>
<td>0.98</td>
<td>0.74</td>
<td>10.5 psi</td>
<td>1.97</td>
<td>0.46</td>
</tr>
<tr>
<td>0.8 psi after 1000 cycles</td>
<td>0.98</td>
<td>0.74</td>
<td>10.5 psi</td>
<td>1.97</td>
<td>0.46</td>
</tr>
<tr>
<td>CURVED SHEAR 11.5 cm RADIUS</td>
<td>11.5 psi</td>
<td>28.0 psi</td>
<td>6.5 psi</td>
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<tr>
<td>PEEL STRENGTH LENGTH WISE. psi average</td>
<td>1.6 psi</td>
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</table>
VELCRO® Brand fasteners are made of nylon (with the exception of polyester for a specific “specialty” product range), making them completely washable, dry cleanable and virtually unbreakable. Under normal conditions, they will easily outlast the life of the garment or article to which they are applied. However, a minimal amount of care is required and the following points should be remembered: Treat as you would any other synthetic fastener or material. When laundering or dry cleaning it is important to ensure that the fastener is closed to avoid a lint build-up and snagging. However, should you forget, the hook portion of the fastener can be cleaned with a stiff brush or another piece of hook tape. To iron, set for nylon and keep the fasteners in a closed position.

**NOTE:** Due to the density of the weave of the tapes a difference in colour depth may be detected between hook and loop tapes of the same colour.

**VELCRO® Brand WOVEN HOOK 88 & LOOP 1000 COLOURS**

<table>
<thead>
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<tr>
<td>Black</td>
<td>330</td>
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<tr>
<td>White</td>
<td>010</td>
</tr>
<tr>
<td>Beige</td>
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<tr>
<td>Light Grey</td>
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<tr>
<td>Royal Blue</td>
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</tr>
<tr>
<td>Red</td>
<td>147</td>
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<tr>
<td>Slate Grey</td>
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<tr>
<td>Brown</td>
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<tr>
<td>Yellow</td>
<td>498</td>
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<tr>
<td>Navy</td>
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<tr>
<td>Olive Green</td>
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<td>Coachman Green</td>
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<tr>
<td>Pinkglow</td>
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<td>Greenglow</td>
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<tr>
<td>Yellowglow</td>
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<td>Orangeglow</td>
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</tr>
<tr>
<td>Pinkglow</td>
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<td>Yellowglow</td>
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<tr>
<td>Orangeglow</td>
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**VELCRO® Brand FLUORESCENT COLOURS**

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<td>Yellowglow</td>
<td>105</td>
</tr>
<tr>
<td>Orangeglow</td>
<td>104</td>
</tr>
</tbody>
</table>
VELCRO® Brand

Hook STYLES

- Designed for high profile woven and knit loops 116 hooks per square centimetre
  Hook height: 0.889 millimetres
  Standard hooks: 705, 704, 711, 745

- Designed for high profile woven and knit loops
  20 hooks per square centimetre
  Hook height: 2.464 millimetres
  Standard hooks: 757, 752

- Designed for low profile woven and knit loops
  58 hooks per square centimetre
  Hook height: 0.635 millimetres
  Standard hooks: 841

- Designed for low profile knit and nonwoven loops
  142 hooks per square centimetre
  Hook height: 0.381 millimetres
  Standard hooks: 847

- Designed for low to medium profile woven and knit loops
  58 hooks per square centimetre
  Hook height: 0.635 millimetres
  Standard hooks: 841

- Designed for low profile knit and nonwoven loops
  263 hooks per square centimetre
  Hook height: 0.508 millimetres
  Standard hooks: 833, 830

- Designed for low profile knit loops
  139 hooks per square centimetre
  Hook height: 0.711 millimetres
  Standard hooks: 805, 811, 845

- Designed for low profile knit and nonwoven loops
  263 hooks per square centimetre
  Hook height: 0.508 millimetres
  Standard hooks: 833, 830

---

<table>
<thead>
<tr>
<th>HOOK</th>
<th>STYLE</th>
<th>RESIN</th>
<th>BENEFITS</th>
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<tbody>
<tr>
<td>705</td>
<td>15</td>
<td>Nylon</td>
<td>Ideal for applications using adhesives</td>
</tr>
<tr>
<td>704</td>
<td>15</td>
<td>Polyester</td>
<td>UV and chemical resistant</td>
</tr>
<tr>
<td>711</td>
<td>15</td>
<td>Polyethylene</td>
<td>Economical</td>
</tr>
<tr>
<td>745</td>
<td>15</td>
<td>Nylon</td>
<td>For sew-on applications</td>
</tr>
<tr>
<td>719</td>
<td>15</td>
<td>Nylon</td>
<td>Uni-directional hook for applications requiring high shear</td>
</tr>
<tr>
<td>805</td>
<td>22</td>
<td>Nylon</td>
<td>Economical</td>
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<tr>
<td>845</td>
<td>22</td>
<td>Nylon</td>
<td>For sew-on applications</td>
</tr>
<tr>
<td>848</td>
<td>22</td>
<td>Vinyl</td>
<td>RF weldable</td>
</tr>
<tr>
<td>886</td>
<td>22</td>
<td>Nylon</td>
<td>For mold-in applications; Knit 3200 scrim back</td>
</tr>
<tr>
<td>810</td>
<td>22</td>
<td>Polyethylene</td>
<td>RF weldable</td>
</tr>
<tr>
<td>757</td>
<td>24</td>
<td>Nylon</td>
<td>For heavy duty applications with little to no cycling</td>
</tr>
<tr>
<td>752</td>
<td>24</td>
<td>Polyethylene</td>
<td>For heavy duty applications; available in silver only</td>
</tr>
<tr>
<td>833</td>
<td>29</td>
<td>Nylon</td>
<td>Very low profile</td>
</tr>
<tr>
<td>830</td>
<td>29</td>
<td>Polyethylene</td>
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<tr>
<td>841</td>
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<td>744</td>
<td>99</td>
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<tr>
<td>847</td>
<td>103</td>
<td>Polyethylene</td>
<td>Soft, flexible, disposable</td>
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</tbody>
</table>
VELCRO® Brand
Cable Management
Tape & Ties
ONE-WRAP®

ONE-WRAP® Brand pre-formed back to back straps are the easy alternative to the common tie/strap, taking it to higher levels of convenience and utility. This simple wrap around fastener can be used hundreds of times and is highly adjustable, with secure closure every time. There are no buckles to get in the way or cause damage. Useful for Appliances, Automotive Networks, Broadcast/recording studios, Computer equipment, Electronic products, Cable and wire assemblies, Electrical installations, LAN installations, Cellular telephone installations, Fibre optics installations, Telecommunications, Home office electronics Instrument installations Transportation Entertainment/theatre, Equipment/installations, Sound installations, Boats/ships/yachts, Machinery.

VELCRO® Brand

• Base material: Polypropylene (Hook) / Backing: Nylon (Loop 3610)
• Standard colours: Black, white, beige, light grey, brown, coachman green, yellow, royal blue, purple, red, orange.
• Standard widths: *
• Standard lengths: *
• Suggested mating component: Self-engaging
• Cycle life: Medium

Main Applications: Cable management, medical equipment bundling, material handling, gardening, sport and leisure activities equipment. Other applications requiring a strong, durable, adjustable and reusable self-engaging fastener.

VELCRO® Brand

ONE-WRAP®

SPECIFICATIONS

<table>
<thead>
<tr>
<th>CODE</th>
<th>COLOUR</th>
<th>19mm x 200mm</th>
<th>25mm x 200mm</th>
<th>25mm x 300mm</th>
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</tr>
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<td>✔</td>
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</tr>
<tr>
<td>520</td>
<td>ORANGE</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

PACKAGING: 25mm x 200mm 100 and 900 straps 25mm x 200mm roll 100 and 900 straps 25mm 300mm roll 75 and 450 straps

UL AIR HANDLING SPECIFICATIONS

Fire retardant VELCRO® Brand ONE-WRAP® straps meet acceptance as a Wire Positioning Device (WPD) in air handling spaces, in accordance with Section 300-22 paragraph (c) and (d) of the National Electrical Code, and UL (Underwriter’s Laboratory) requirements for a rating of 94-H2.

Qualified Configurations:

<table>
<thead>
<tr>
<th>SIZE</th>
<th>STRAPS / SPEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>19x125mm</td>
<td>1440</td>
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<tr>
<td>19x200mm</td>
<td>900</td>
</tr>
<tr>
<td>25x200mm</td>
<td>675</td>
</tr>
<tr>
<td>25x300mm</td>
<td>450</td>
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</tbody>
</table>

HOOK 88 AND LOOP 1000 CLOSURE PERFORMANCE

<table>
<thead>
<tr>
<th>CYCLE LIFE AVERAGE</th>
<th>SHORT STRENGTH LENGTH WISE</th>
<th>LONG STRENGTH WIDTH WISE</th>
<th>CURVED STRENGTH ON 41/2&quot; RADIUS</th>
<th>TENSION ON LATCHING EFFECT</th>
<th>PEEL STRENGTH LENGTH WISE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000 cycles</td>
<td>1.62kg/cm2</td>
<td>1.62kg/cm2</td>
<td>3.24kg/cm2</td>
<td>0.22kg/25mm Width</td>
<td>0.72kg/15mm Width</td>
</tr>
</tbody>
</table>

* Certified fire retardant up to 122 F (50 C)
VELCRO® Brand

SELF-ENGAGING HOOK & LOOP / ONE-WRAP® TAPE CONTINUOUS

ONE-WRAP®

ONE-WRAP® Brand back to back fastening system features a polyethylene hook flame laminated to a nylon loop. Reusable and infinitely adjustable, ONE-WRAP® Brand tape can be used for any size circumference and easily cut to length. Ideal for: Cord & cable control, Optical fibre cable, Home & office computers, Camping & outdoor equipment, Display & exhibitions.

ONE-WRAP® Brand back to back straps. The easy solution to challenges in: Aircraft Broadcast/recording studios, Cable and wire assemblies, Cellular telephone installations, Entertainment/theatre, Boats/ships/yachts, Transportation Utilities.

Benefits

• Back-to-back fastener laminated without glue – no chemical residue.
• Standard version available in 11 colours - great for electrical and network coding.
• Fire retardant version meets certification requirements for MVSS 302, FAR 25.853 Appendix F Part 1 (a) (1) (i) and (ii), and UL 94-V2
• Designed for durability - ONE-WRAP® Brand fasteners can be used over and over again.
• Range of strap styles and sizes suit a wide variety of cord control applications.

VELCRO® Brand

ONE-WRAP®

• Base material: Polypropylene hook and nylon loop
• Average Shear: 1.62kg/cm² / FR 2.04kg/cm²
• Average Peel: 0.22kg / 25mm width
• Average Peel FR: 0.272KG/ 25mm width
• Rated Load: 8.16kg / FR 8.16kg
• Operating Temperature: 0-104°C/ FR 0-104°C
• Standard colours: Black, white, beige, light grey, brown, coachman green, yellow, royal blue, purple, red, orange
• Standard widths (mm): 6, 12, 19, 25, 50
• Standard lengths: 22.8 metres
• Suggested mating component: Self-engaging
• Cycle life: Medium / Flame Retardant Low-Medium

Main Applications: Cable management, medical equipment bundling, material handling, gardening, sport and leisure activities equipment. Other applications requiring a strong, durable, adjustable and reusable self-engaging fastener

The easy solution to challenges in:
• Aircraft
• Broadcast/recording studios
• Cable and wire assemblies
• Cellular telephone installations
• Entertainment/theatre
• Boats/ships/yachts
• Transportation
• Utilities
• Appliances
• Computer Equipment
• Electrical installations
• Fibre optics installations
• Machinary
• Telecommunications
• Automotive
• Networks
• Electronic products
• Home Office electronics
• LAN installations
• Sound installations
• Equipment installations

The easy solution to challenges in:

HOOK 88 AND LOOP 1000 CLOSURE PERFORMANCE

<table>
<thead>
<tr>
<th>CODE</th>
<th>COLOUR</th>
<th>6mm</th>
<th>12mm</th>
<th>19mm</th>
<th>25mm</th>
<th>50mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>330</td>
<td>BLACK</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>010</td>
<td>WHITE</td>
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<td></td>
</tr>
<tr>
<td>041</td>
<td>BEIGE</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>097</td>
<td>LIGHT GREY</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>106</td>
<td>BROWN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>141</td>
<td>COACHMAN GREEN</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>498</td>
<td>YELLOW</td>
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<tr>
<td>208</td>
<td>ROYAL BLUE</td>
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<tr>
<td>117</td>
<td>PURPLE</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>147</td>
<td>RED</td>
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<td></td>
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<td></td>
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<tr>
<td>520</td>
<td>ORANGE</td>
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</tbody>
</table>

PACKAGING: 22.8 metre rolls. Customer cutting service available.

SPECIFICATIONS

CODE | COLOUR  | 6mm | 12mm | 19mm | 25mm | 50mm |
<table>
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<tr>
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VELCRO® Brand

MVA#8 / HOOK

MVA#8 Hook

- **Base material:** Polyamide / 0172 / Sew On
- **Standard colours:** Black
- **Standard widths (mm):** 22 pre-cut dots, 25 rolls
- **Standard lengths:** 900 dots & 20m rolls
- **Operating Temperature:** -34°C TO 93°C
- **Suggested mating component:** Loop 1000
- **Cycle life:** High/Medium

**Main Applications**
Automotive carpet fixation, moulding.

Limitations:
- As MVA#8 hook is a moulded tape, it lacks the flexibility of the woven nylon hook, as such, it will noticeably degrade the mating woven loop element as they are “cycled” (opened and closed) resulting in a sharply reduced closure life when compared with standard woven nylon hook and loop fasteners.

- MVA#8 hook, being manufactured from a nylon polymer, tends to become brittle when exposed to prolonged cold temperatures and/or ultra-violet light (sunlight). Applications using MVA 8 hook should therefore reflect this consideration. Sewing attachment to flexible substrates recommended for indoor application only, due to its temperature sensitivity.

- As MVA#8 hook is moulded of nylon polymer it has little or no porosity. Adhesive bonding method of attachment to a non-porous surface is thus difficult. In this context, adhesive solvents have little opportunity to evaporate, a process that is necessary to achieve a good adhesive bond. It is thus recommended that evaluation of the substrate material, to which the moulded hook would be attached, be made in all instances.

- For sewing method of attachment, 6 stitches or less is recommended per 25 millimetres. The high profile configuration contains 14 arrowheads per square centimetre. As such, it will provide a deep penetration to engage in a semi-permanent closure, i.e. strong fastening with limited loop cycle life. It can also fasten into open pore cell foams. Particularly popular for the automotive, boating, building and carpet industries.

**MVA#8 Hook and Loop 1000 Closure Performance**

<table>
<thead>
<tr>
<th>Cycle Life</th>
<th>Average</th>
<th>Shear Strength</th>
<th>psi average</th>
<th>Tension or Latching Effect</th>
<th>psi average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hook</td>
<td>1.54kg/cm</td>
<td>22psi</td>
<td></td>
<td>1.13kg/25mm Width</td>
<td>2.5psi</td>
</tr>
<tr>
<td>Loop 1000</td>
<td>0.77kg/cm</td>
<td>11psi</td>
<td></td>
<td>0.84kg/cm</td>
<td></td>
</tr>
<tr>
<td>Hook</td>
<td>3.09kg/cm</td>
<td>44psi</td>
<td></td>
<td>1.13kg/25mm Width</td>
<td></td>
</tr>
<tr>
<td>Loop 1000</td>
<td>0.84kg/cm</td>
<td>12psi</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Before using adhesives in production, the user should test the adhesive to determine the suitability for the intended use. Based Upon 1000 Hours of Exposure.

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VELSTUD® FASTENERS / SPECIALTY

VELSTUD® Fasteners
A moulded nylon square with a protruding Christmas tree insertion shank. The square surface has a permanently attached VELCRO® Brand loop or moulded hook fastening surface. Method of Attachment: Shank insertion into pre-drilled hole. These can be easily and quickly attached to most rigid surfaces. It can also be mates with other VELCRO® Brand hook or loop tape products. Its design provides exceptional added-value to your products and your business.

VELSTUD® Brand FASTENERS PROPERTIES INCLUDE:
• Impressive holding power
• Tough and durable, providing long time dependability
• Improved design flexibility – for parts consolidation, future disassembly and recycling
• Simplified and speeding assembly
• Helps to eliminate squeaks and rattles, enhancing customer satisfaction

VELSTUD® Brand - Hook: Truck trim and panels Scrubber attachment of floor polishers

VELSTUD® Hook
• Base material: Polyester
• Standard colours: Black
• Standard widths (mm): 25.4 X 25.4 (1” X 1”)
• Standard lengths: 12.7mm (1/2”)
• Suggested mating component: VELSTUD® LOOP
• Cycle Life: High

Main Applications
VELSTUD® Brand - Hook: Truck trim and panels Scrubber attachment of floor polishers

VELSTUD® Loop
• Base material: Polyester
• Standard colours: Black
• Standard widths (mm): 25.4 X 25.4 (1” X 1”)
• Standard lengths: 12.7mm (1/2”)
• Suggested mating component: VELSTUD® Hook
• Cycle Life: High

Main Applications
VELSTUD® Brand - Loop: baby’s car seat trimming

MVA#8 HOOK AND LOOP 1000 CLOSURE PERFORMANCE

<table>
<thead>
<tr>
<th>SINGLE</th>
<th>LENGTH</th>
<th>WISE</th>
<th>PSI AVERAGE</th>
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</thead>
<tbody>
<tr>
<td>SHEAR</td>
<td>1.54Kg/cm</td>
<td>22 psi</td>
<td></td>
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<tr>
<td>0.77Kg/cm</td>
<td>11 psi</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.09Kg/cm</td>
<td>44 psi</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.84Kg/cm</td>
<td>12 psi</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.13Kg/25mm</td>
<td>2.5 psi</td>
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<td></td>
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</tbody>
</table>

VELCRO® Brand
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AUTO-LOOP®

Competition, regulation, and a dynamic global business environment put constant pressure on the transportation industry. VELCRO® Brand fasteners meet stringent government and quality standards and help manufacturers and suppliers deliver innovative designs, streamline production processes, and improve quality. Assembly is faster, more ergonomic, and more environmentally friendly—with less waste and fewer defects. As a trusted partner for more than 25 years, the Velcro Companies worldwide operations and expert logistics services ensure an uninterrupted supply of components to meet today’s high-pressure, just-in-time manufacturing requirements.

Main Applications
Automotive seating

Benefits
• AUTO-LOOP® is specifically designed for use on vehicle upholstery where the hook component is already bonded to the seat.
• Seat assembly with VELCRO® Brand fasteners is more cost-effective than with ring-and-wire or adhesives. They also reduce scrap and rework, while giving you more design flexibility. That’s why hook-and-loop is so widely used to secure seat trim covers and, increasingly, for armrests and headrests, too.

VELCRO® Brand
AUTO-LOOP®

• Base material: Polyester
• Standard colours: White
• Standard widths (mm): 38
• Standard lengths: 91.44 meters
• Suggested mating component: VELSTUD® Hook or MVA#8 tape
• Cycle Life: Medium
VELSTRETCH® Brand LOOP

VELSTRETCH® Brand elastic loop is soft and breathable. It’s for any place where a little give is needed. It is more comfortable against a patient’s skin than ordinary elastic, and its width stable too. Its ability to stretch makes it ideal for medical applications. It is especially important for patients who need to tighten the closure as swelling reduces. VELSTRETCH® Brand elastic loop is a specially engineered elastic loop, combining the convenience and adjustability of the VELCRO® Brand hook and loop fastening systems with the advantages of elasticity.

QUALITIES:
• Tension closure: The soft elastic VELSTRETCH® Brand loop applies an immediate and constant tension to any closure. This characteristic is especially useful in items such as orthopedic appliances, body vests, sports supports and protective clothing. When mated with a VELCRO® Brand hook component, the loop gives your product the necessary compression to function properly.
• Flexibility and strength: The VELSTRETCH® Brand loop creates a mobile, flexible closure which reacts precisely to the dynamics of your product. This stretch loop is designed to provide approximately 55% stretch. It conforms to the complex stresses inherent in devices like sports protectors, industrial garments and medical halters. In both its relaxed and stretched states, the VELSTRETCH® Brand loop gives your product outstanding closure power.
• Consistent stretch characteristics: The elastic VELSTRETCH® Brand loop backing stays flat when stretched. This minimises the unattractive curling or “necking” effect while maintaining a firm, consistent closure.
• A range of fastening powers: The loop mates with the comprehensive offering of VELCRO® Brand hook products. This flexibility provides a broad range of cycle life, shear and peel characteristics.
• Design adjustability: As an elastic fabric substitute, the VELSTRETCH® Brand loop can be fashioned as a strap or subassembly for fabricated parts. Also, since the VELSTRETCH® Brand loop can be mated with a VELCRO® Brand hook product along its entire length, it enables an infinite closure adjustability not afforded by ordinary elastic fabrics.
• Wide application range: The VELSTRETCH® Brand loop can be sewn or ultrasonically welded. It will withstand conventional washing, dry cleaning or even autoclaving without degradation. These characteristics make the VELSTRETCH® Brand loop adaptable to a very wide range of applications.

VELCRO® Brand

VELSTRETCH®

• Base material: Polyamide, elastomer
• Standard colours: Black, white, Beige (19mm black & white only)
• Standard widths (mm): 25, 50
• Standard lengths: 20m rolls
• Custom cutting: Available
• Suggested mating component: Hook 88
• Cycle life: Medium

Main Applications
Braces, Casts, Splints, Sport Shin Guards, Sporting gloves, active wear, medical straps, Protective clothing, exercise equipment.

Before using adhesives in production, the user should test the adhesive to determine the suitability for the intended use. Based Upon 1000 Hours of Exposure
VELCRO® Brand
VELFOAM® & V5 STRAP/ WOVEN LOOPS

VELFOAM® Brand padding
VELFOAM® Brand padding is a double faced, soft knitted nylon loop fabric designed to provide thick and gentle cushioning. It is made up of three layers - two outside soft loop layers and an inner foam layer - forming a substantial lightweight and protective cushioning system. The foam centre is made from a plant polyether-based polyurethane foam (forming a thick robust layer against daily wear and tear). The outside loop layers are soft to the touch for gentle comfort against the skin. VELFOAM® Brand padding has a high cycle life making this not only a durable product, but a cost effective one, that can be used again and again. It can stand up against environmental degradation such as humidity and warmth.

VELCRO® Brand
VELFOAM®

- Base material: Polyether-based polyurethane foam
- Standard colours: Beige
- Standard widths (mm): 50, 150
- Standard lengths: 4.5m rolls
- Custom cutting: N/A
- Suggested mating component: Hook 88 or ULTRA-MATE® Brand HTH

Hook and loop closure performance

Cycle Life / Average

Used in conjunction with a VELCRO® Brand standard hook or an ULTRA-MATE® Brand HTH 705 hook, VELFOAM® Brand padding & V5 Strap will provide strong closure, yet remain easy to open.

General information for VELFOAM® Brand & V5 strap padding
Mate with a standard VELCRO® Brand hook or an ULTRA-MATE® Brand HTH hook to create a sturdy and durable fastening system. Standard VELCRO® Brand hook products are reusable & highly versatile. This woven hook when pressed together with VELFOAM® Brand padding or V5 Strap results in a secure and adjustable fastening. Simply pull apart and adjust for optimum comfort. Ideal for disposable products such as bandaging and support. ULTRA-MATE® Brand HTH hook products are cutting edge technology fasteners formed through continuous injection molding for a precise and uniform hook shape. The high cycle life means the ULTRA-MATE® Brand HTH hook can be used again and again forming an exact closure each time. It also has excellent low linting properties.

VELCRO® Brand
V5 STRAP

- Base material: 5 layered nylon strap
- Standard colours: Beige
- Standard widths (mm): 25, 50
- Standard lengths: 22.8m rolls
- Custom cutting: N/A
- Suggested mating component: Hook 88 or ULTRA-MATE® Brand HTH

Hook 88 and loop 1000 closure performance

Cycle Life / Average

Used in conjunction with a VELCRO® Brand standard hook or an ULTRA-MATE® Brand HTH 705 hook, VELFOAM® Brand padding & V5 Strap will provide strong closure, yet remain easy to open.

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VELTEX® Brand fabric

TREATMENT OF STAINS

VELTEX® Brand fabric was spotted with milk, wine, cola, black coffee, coffee with cream and sugar, tea, wax crayon and dirty grease. Liquid stains were allowed to dry for 24 hours and then cleaned with a sponge and a common household suds detergent. Dirty grease stains and wax crayon were first spot cleaned with a lighter fluid containing naphtha to remove the solvent soluble matter. Any stain residue was then subjected to a shampooing, employing a household upholstery cleaner.

VELTEX® Brand Photography and Film Backdrop Fabric:

- Absorbs Reflective Light
- Green and Blue Screening
- Flexible and Versatile VELTEX® Brand fabric is designed for engagement with VELCRO® Brand hook fasteners

BASIC PRODUCT CONSTRUCTION

- **Base material:** Nylon knit/ polyester & polyurethane foam/nylon tricot fabric
- **Standard Colours:** Black, white, antique grey, beige, eggshell, jungle green, navy, par green, pink, platinum, purple, royal blue, spanish red, sterling green, navy, par green, pink, platinum, purple, royal blue, spanish red, sterling green, navy, par green, pink, platinum, purple
- **Standard Widths:** 1.524m
- **Standard lengths:** 36.5m
- **Suggested matting component:** Hook 88
- **Fire hazard classification:** Tested to: AS 1530.3 1999
  (a) Smoke developed – 3 (b) Spread of flame – 0, FMVSS302 - Passed
- **Cycle Life:** Medium
- **Basic product construction:**
  - Base Material: Nylon knit/ polyester & polyurethane foam / nylon tricot fabric
  - Standard colours: Black, white, antique grey, beige, eggshell, ice blue, jungle green, navy, par green, pink, platinum, purple, royal blue, spanish red, sterling green, navy, par green, pink, platinum, purple, royal blue, spanish red, sterling green, navy, par green, pink, platinum, purple, royal blue, spanish red
  - Standard widths: (inches) 60
  - Standard put-ups: 40 yd roll
  - Material component: Hook 88
  - Medium

Main Applications

Displays, office partitions, bulletin boards, advertising specialities, medical applications, soft case applications

STAIN TESTED RESULTS

<table>
<thead>
<tr>
<th>STAIN</th>
<th>STAIN REMOVAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>MILK</td>
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<tr>
<td>WINE</td>
<td>COMPLETE</td>
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<tr>
<td>COLA</td>
<td>COMPLETE</td>
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<tr>
<td>BLACK COFFEE</td>
<td>COMPLETE</td>
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<tr>
<td>COFFEE CREAM SUGAR</td>
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<tr>
<td>TEA</td>
<td>COMPLETE</td>
</tr>
<tr>
<td>WAX CRAYON</td>
<td>SUBSTANTIAL</td>
</tr>
<tr>
<td>DIRTY GREASE</td>
<td>SUBSTANTIAL</td>
</tr>
</tbody>
</table>
INNOVATIVE MILITARY SOLUTIONS

Velcro USA Inc. is proud to be a recognised supplier of hook and loop fasteners to the United States Military for more than 30 years. We have helped our customers create high performance products including:

• Tactical apparel
• Load-bearing equipment
• Shelters
• Ballistic protection

With manufacturing located in the New Hampshire, our products are certified, "Made in the USA", in addition to meeting the requirements of the Berry Amendment.

Velcro USA Inc. is more than a supplier. Our staff of engineers are available for technical support and mutual development opportunities. In collaboration with leading government contracts and research facilities, Velcro USA Inc. provides innovative solutions meeting the rigorous demands of today’s military personnel.

We focus on the fasteners so you can focus on the mission

AA55126 Types and Classes

VELCRO® Brand Military Fasteners are designed to meet United States Commercial Item Description AA55126 (Rev. B) issued by Defense Supply Center - Philadelphia. The commercial item description covers the requirements for different types, classes, colours, and widths of hook and loop fasteners. To determine which VELCRO® Brand product meets the type and class required, please refer to this table.

Colour swatches

Most of our nylon products are available in a wide range of colours, including approved military shades. These are some of our most popular colours. Please note that swatches are approximations of the actual material colour. If the Velcro USA Inc. colour number differs from the military colour number, it is listed in parenthesis.

VELCRO® Brand

Brand Printed Loop

• Featuring VELCRO® Brand Knit Loop 3001
• Available up to 54’ (1370mm) wide
• Meets performance requirements of AA55126
• Also available in solid shades

VELCRO® Brand

Brand Printed Loop

• Featuring VELCRO® Brand Knit Loop 3001
• Available up to 54’ (1370mm) wide
• Meets performance requirements of AA55126
• Also available in solid shades
VELCRO® Brand

**Loop 1100**

- **Base material:** Nylon
- **Standard colours:** Black, coyote, foliage, tan
- **Standard widths (mm):** 16, 19, 25, 38, 50, 100, 150.
- **Standard lengths:** 45.72 metres
- **Woven with:** 8.0 mil yarns
- **Suggested mating component:** Hook 89
- **Cycle life:** High
- **Certified to:** AA55126B
- **Fire retardant versions available**

**Performance**

- Peel: 1.0 PIW (0.45kg/25mm WIDTH)
- Shear: 10 PSI (0.70 kg/cm²)

**Main Applications:** Professional apparel (military, firefighters, etc.), reusable drapers, mop heads. Other applications requiring IR resistance.

VELCRO® Brand

**Loop 9000 Polyester**

- **Base material:** Polyester
- **Standard colours:** Black, white, camouflage
- **Standard widths (mm):** 16, 19, 25, 38, 50, 100, 150.
- **Standard lengths:** 45.72 metres
- **Woven with:** 8.0 mil yarns
- **Suggested mating component:** Hook 81 Polyester
- **Cycle life:** Medium
- **Certified to:** AA55126B
- **Fire retardant versions available**

**Performance**

- Peel: 1.0 PIW (0.22kg/25mm WIDTH)
- Shear: 8.0 PSI (0.56 kg/cm²)

**Main Applications:** Apparel, outdoor applications, transportation interiors. Other applications requiring weather (moist, UV,...) resistance.

VELCRO® Brand

**Loop 003 HI-AIR®**

- **Base material:** Polyamide, NOMEX® fibres
- **Standard colours:** Natural
- **Standard widths (mm):** 25, 50
- **Standard lengths:** 45.72 metres
- **Woven with:** 8.0 mil yarns
- **Suggested mating component:** Hook 066 HI-AIR®
- **Cycle life:** Medium
- **Certified to:** AA55126B

**Performance**

- Peel: 1.5 PIW (0.22kg/25mm WIDTH)
- Shear: 8.0 PSI (1.05 kg/cm²)

**Main Applications:** Self-extinguishing garments, military apparel, transportation interiors.
VELCRO® Brand

Hook 65

- **Base material**: Nylon/ Sew-on, pressure sensitive adhesive, or heat sealable/RF weldable coating
- **Standard colours**: Black, white
- **Standard widths (mm)**: Woven with 6.5 mil yarns
- **Standard widths**: 16mm, 19mm, 25mm, 38mm, 50mm, 100mm
- **Certified to**: AA55126B
- **Performance**
  - Peel: 0.5 PIW (0.22kg/25mm WIDTH)
  - Shear: 5.0 PSI (0.35kg/cm²)

**Main Applications**: Apparel, blood pressure cuffs, orthopedics, straps.

VELCRO® Brand

Hook 66 HI-AIR®

- **Base material**: Nylon, NOMEX® 100% nylon
- **Standard colours**: Natural, Camouflage
- **Standard widths (mm)**: 25, 50
- **Woven with**: 6.5 mil yarns
- **Suggested mating component**: Loop 3000 HI-AIR®
- **Cycle life**: Medium
- **Backings**: Sew-on, pressure sensitive adhesive
- **Certified to**: AA55126B
- **Performance**
  - Peel: 1.0 PIW (0.45kg/25mm WIDTH)
  - Shear: 10.0 PSI (0.70 kg/cm²)

**Main Applications**: Self-extinguishing garments, military apparel, transportation interiors. Other applications requiring to meet military and fire retardant specifications.

VELCRO® Brand

Hook 81 Polyester

- **Base material**: 100% polyester
- **Standard colours**: Black, white, camouflage
- **Woven with**: 8.0 mil yarns
- **Standard widths**: Standard widths (mm) 16, 19, 25, 38, 50100
- **Standard lengths**: 22.86 metres
- **Backings**: Sew-on, pressure sensitive adhesive, or heat sealable/RF weldable coating
- **Certified to**: AA55126B
- **Fire retardant versions available
- **Cycle life**: Medium
- **Performance**
  - Peel: 0.5 PIW (0.22kg/25mm WIDTH)
  - Shear: 15.0 PSI (1.05kg/cm²)

**Main Applications**: Apparel, outdoor applications, transportation interiors. Other applications requiring weather (moist, UV,...) resistance.

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NOMEX® is a Reg. TM of E.I. du Pont de Nemours and Company.
VELCRO® Brand

Hook 745

- **Base material:** Extruded Nylon / Without backing
- **Extruded plastic hook**
- **Sew-on Certified to:** AA55126B
- **Standard colours:** Black, natural, foliage green
- **Extruded plastic hook**
- **Suggested mating component:** Loop 1000
- **Standard widths (mm):** 16, 19, 25, 38, 50, 100
- **Cycle life:** High/Medium
- **Certified to:** AA55126B

**Performance**

- Peel: 0.5 PIW (0.22kg/25mm WIDTH)
- Shear: 16.0 PSI (1.12kg/cm²)

**Main Applications:** Outwear, headgear, medical braces, fabricated items.

---

VELCRO® Brand

Hook 89

- **Base material:** Nylon with Sew-on, pressure sensitive adhesive backing or heat sealable/RF weldable coating
- **Standard colours:** Black, coyote, foliage, green, tan
- **Standard widths (mm):** 15mm, 19mm, 25mm, 38, 50, 100, 150
- **Standard length:** 45.7 metres
- **Suggested mating component:** Loop 1100
- **Cycle life:** High
- **Certified to:** AA55126B
- **Fire retardant versions available**

**Performance**

- Peel: 1.0 PIW (0.45kg/25mm WIDTH)
- Shear: 10.0 PSI (0.70 kg/cm²)

**Main Applications:** Professional apparel (military, firefighters, etc.), reusable drapers, mop heads. Other applications requiring IR resistance.

---

VELCRO® Brand

Hook 841

- **Base material:** Nylon/Backing: Nylon scrim
- **Extruded plastic hook**
- **Standard Colours:** Black, white
- **Standard widths (mm):** 16, 19, 25, 38, 50, 100
- **Standard lengths:** 45.7 metres
- **Backings:** Sew-on
- **Certified to:** AA55126B

**Performance**

- Peel: 0.5 PIW (0.32kg/25mm WIDTH)
- Shear: 16.0 PSI (1.05kg/cm²)

**Main Applications:** Sports gear, adventurer apparel, performance footwear, outwear. Other applications requiring a sewable and low profile closure with high performance (when combined with Loop 4000)
VELCRO® Brand

Material Handling
The VELCRO® Brand LOGISTRAP®

The VELCRO® Brand LOGISTRAP® offers a revolutionary new way to secure goods in a warehouse environment. The VELCRO® Brand LOGISTRAP® eliminates the need to re-wrap any palletized item once it has been received in your warehouse. Save time, save money, and save the planet with this simple, yet effective solution.

Main Applications
Pallet fixation, fastening system, warehouse management

HOW TO USE IT

INWARD GOODS
You can start using VELCRO® Brand Logistrap® from the moment your goods are received. After conducting your initial inspection, simply re-wrap the goods with LOGISTRAP® to safely transport the pallet to your staging area. Awkward or unstable items can be provided with extra stability through the use of just one LOGISTRAP®.

STAGING AREA
Once in the staging area, the goods can be quickly and easily re-allocated or otherwise prepared for re-distribution or internal storage. As you can see in this side-by-side demonstration, LOGISTRAP® secures a load significantly faster than a conventional hand-held stretch-wraper.

AWKWARD LOAD
Secure unstable or awkward items using multiple straps - neater, safer. A must for health and safety when moving such items.

STORAGE AT HEIGHT
Once strapped with corners, goods are stored securely at height in the warehouse. This is where the real benefits of VELCRO® Brand LOGISTRAP® start to shine through.

SPOTTING
Unlike stretch-wrapped goods, items on pallets can be identified from a distance because there is no stretch-wrap blocking the view.

PICKING
A single item can easily be picked by and elevated or ground level staff member - simply loosen the LOGISTRAP®, remove item, secure strap and go. Comparing this to a conventional stretch-wrap process, it takes a fraction of the time.

REUSABLE
Compared to metal or plastic bonded straps or stretch-wrap, LOGISTRAP® saves literally tons of plastic wrap over the course of a busy year. Plastic wrap that stays out of our landfill.

OVERVIEW
The VELCRO® Brand LOGISTRAP® is a clever application of a time-tested technology. Let the VELCRO® Brand work for you in your business.
Material Handling

VELSTRAP® Brand Straps are a reusable, high strength strap utilising a buckle for optimum tensioning. This is recommended when fast, easy engagement and release features, coupled with additional cinching strength are desired.

The performance aspects of VELSTRAP® Brand Straps are determined by many diverse factors including:
- The type of hook and loop tape
- The width and length
- The hook tab in relation to the total length of the strap
- The type of ring used (rectangular in the VELSTRAP® Brand configuration)

VELCRO® Brand

VELSTRAP®

- Base material: Nylon/polyester
- Standard colours: Black & beige-300, 900, Black white, beige-450,600
- Standard widths (mm): 25
- Standard length: In bulk, 300, 450,600,900
- Suggested mating component: Self-engaging
- Cycle life: High
- Custom straps: Available upon request and minimum quantities apply.

Main Applications

Cable management, tourniquet straps, packaging, metallic trolley closure, automotive accessories (trunk), sports. Custom manufactured including ultrasonic welding and stitching. Archiving documents, bundling of wires, pipes, skis, poles and sails, securing knee guards, trouser cycling straps, exercise weight straps.

General performance guidelines as to how VELSTRAP® Brand Straps will perform in terms of cycle life, shear, tension and peel can be obtained by reference to closure performance table. However, depending on the diameter around which the strap is fastened, the closure performance closure strength of straps can be approximately twice as great. The smaller the diameter, the greater the closure strength of the strap.

<table>
<thead>
<tr>
<th>HOOK 88 AND LOOP 1000 CLOSURE PERFORMANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CYCLE LIFE AVERAGE</td>
</tr>
<tr>
<td>---------------</td>
</tr>
<tr>
<td>0.98 kg/cm left after 1000 cycles</td>
</tr>
</tbody>
</table>
HEAVY DUTY STRAP
For quick, effective securing of items without the need for rope or elasticised hook straps. TO USE: Find a secure tie down point on your vehicle. Pass through with the (loop side out). Pull the end of the strap through the metal buckle, tighten and secure strap.

EASY HANG
For easy storage of bikes, ladders, extension cords, suitcases, pipes & hoses. VELCRO® Brand Easy Hangs are available in 3 sizes - 430mm, 630mm and *830mm - with weight capacity of 40kg, 80kg and *120kg. Can be used indoors for space saving storage applications. Also can be used outdoors for easy hose tidy or for hanging plants. The uses of the VELCRO® Brand Easy Hangs are endless.
VELCRO® Brand FASTENERS

Most people know the VELCRO group of companies for our famous hook and loop systems, but we also make a large range of fastening accessories. Shown here are our tabs, locks and slides, buckles, shoulder pads, hooks and rings, cord locks, and our side release buckles and slides. All VELCRO® Brand buckles and hardware are manufactured to the highest quality specifications, ensuring high strength and trouble free operation.

No matter whether you manufacture: Sporting goods
- Luggage
- Sports clothing
- Black packs and bags
- Boating accessories
- Camping equipment
- Portable lighting
- Display systems
- Stationery systems

### VELCRO® Brand Buckles

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<th>Style Code</th>
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<td>Drab Olive Side Release Heavy Duty Buckle</td>
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<td>White Side Release Heavy Buckle</td>
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<td>Side Release Buckle</td>
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<td>Mini Side Release Buckle</td>
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<td>Sedona Curved Release Buckle</td>
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### VELCRO® Brand

#### Buckle Hardware Break Strengths

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</table>

The value is for minimum breaking strength in KG.
VELCOIN® Brand

VELCOIN® / PRE-FORMED DOTS

VELCOIN® Brand pre-formed dots:

FOR BEST RESULTS: Surface should be clean, dry and free of oils. Use clean wiping material with isopropyl alcohol (rubbing alcohol) to free surface of contaminates and allow to dry. Peel release liner from back of tape and apply. Be careful not to touch adhesive with your fingers. To maximize adhesive performance, substrate and tape should be applied in conditions of 18-24°C. Allow 24 hours for full bond strength. VELCRO® Brand adhesive products will bond to most metals, glass, wood, card, ceramics and plastics.

Note: Before using adhesives in production, the user should test the adhesive to determine the suitability for the intended use.

VELCRO® Brand
VELCOIN®

- Base material: Nylon (Hook 88 & Loop 1000)
- Standard colours: Black, white, beige
- Standard widths (mm): 16, 22
- Standard lengths: 1200, 900
- Cycle life: High

Benefits:
Round pieces for easy opening
Close with simple touch
Recommended for high cycle life applications

Main Applications: Apparel, office folders, stationery, rigid packaging & trays.

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VELCRO® Brand

**Easy Coin / PRE-FORMED OVALS**

**VELCOCOIN® Brand pre-formed dots:**
- Mated sandwich to optimise quick application
- Easy use thanks to the easy peel feature
- Recommended for low cycle life applications

The hook material is slightly notched on one side that gives a small pull tab on the loop side once on the application. This feature makes it easier to disengage the hook from the loop when the user wants to pull them apart. Coins are pre-mated and are quick to apply in manual production processes. Easy Coin, All in one piece guarantees perfect alignment. Mated sandwich to optimise quick application. Easy use thanks to the easy peel feature. Its low profile integrates easily into packaging."

**Main Applications:** Apparel, office folders, stationery, rigid packaging & trays.

**HOOK 88 AND LOOP 1000 CLOSURE PERFORMANCE**

<table>
<thead>
<tr>
<th>CYCLE LIFE</th>
<th>SHEAR STRENGTH LENGTH WISE psi</th>
<th>SHEAR STRENGTH WIDTH WISE psi</th>
<th>CURVED SHEAR ON 11.5cm RADIUS psi</th>
<th>TENSION OR LATCHING EFFECT psi</th>
<th>PEEL STRENGTH LENGTH WISE piw</th>
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<tbody>
<tr>
<td>4 &amp; 8 pair Left after 1000 cycles</td>
<td>9.98psi/20pi</td>
<td>1.97psi/20pi</td>
<td>0.46psi/25mm Width</td>
<td>0.54psi/25mm Width</td>
<td>0.8piw left after 1000 cycles</td>
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**How To Use**

1. 2. 3. 4.