METHODS OF ATTACHMENT

Mechanical
Mold-in
Sewing
Welding

Pressure sensitive adhesives
(See VELCRO® Brand Adhesives Range)

Heat or solvent activated adhesives
(See VELCRO® Brand Adhesives Range)

FABRICATION

PACKAGING

PRINTING

APPLICATIONS

Slitting
Pre-cut
Die cut
Scored cut
Mated
Perforated

Custom manufactured straps
Complete product assembly

Flexography  Hot stamping  Pad printing  Heat transfer labels

Rolls
Spools
Shipping boxes
Labels

Sealed bag
Blister
Folding boxes

Bundling
Bulk
Customised packaging

Ink

MEDICAL

PERSONAL CARE

PACKAGING & MATERIALS

HANDLING

CONSTRUCTION

TRANSPORTATION

MILITARY & GOVERNMENT

OTHER INDUSTRIES

APPAREL
**Features**
- Thin, flexible, resilient and tough
- Several proprietary hook shapes
- Available in widths up to 320 mm
- Customised colours upon request
- Hook density up to over 500/cm²
- Designed to engage a full range of loop fabrics
- Cycling capabilities from disposable to long cycle life
- Dielectrically and sonically sealable, sewable
- Flexibility-ideal for stitching and slitting, as well as straight and die-cutting
- Adaptability from unidirectional hooks to wide selvedges or channels

**Shapes**

![Shapes Diagram](image-url)
# VELCRO® Brand Plastic Hook Tapes

Plastic tapes are engineered molded hook shapes designed for superior performance characteristics with a wide variety of woven, knitted or nonwoven loop tapes.

## Characteristics

<table>
<thead>
<tr>
<th>Shape</th>
<th>Hook 720</th>
<th>Hook 820</th>
<th>Hook 822</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hook</strong></td>
<td>Polyamide 6.6</td>
<td>Polyamide 6.6</td>
<td>Polypropylene</td>
</tr>
<tr>
<td><strong>Backing</strong></td>
<td>Velour 3200 (polyester)</td>
<td>Without backing</td>
<td>Without backing</td>
</tr>
<tr>
<td><strong>Density</strong></td>
<td>60 hooks/cm²</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Suggested Mating Components

- Medium to high profile loops
- Low profile loops

### Product Name

- Hook 720
- Hook 820
- Hook 822
- Hook 722
- Hook 742
- Hook 766
- Hook 805*
- Hook 811

### Base Material

- Hook: Polyamide 6.6
- Hook: Polyamide 6.6
- Hook: Polypropylene
- Hook: Polyamide 6.6
- Hook: Polypropylene
- Hook: Polypropylene
- Hook: Polyamide 12
- Hook: Polyethylene

### Melting Point (Hook)

- 250 °C
- 250 °C
- 150 °C
- 250 °C
- 150 °C
- 150 °C
- 169 °C
- 120 °C

### Loop for Data Reference

- Loop 001
- Loop 001
- Loop 001
- Velour 3165
- Velour 3165
- Velour 3165
- Velour 3165
- Velour 3165

### Cycle Life

- High
- High
- High
- High
- Medium/Low
- Medium
- High
- Medium

### Peel Strength (Minimum)

- 2 N/cm
- 2.4 N/cm
- 1.5 N/cm
- 1 N/cm
- 0.8 N/cm
- 0.6 N/cm
- 0.6 N/cm
- 0.6 N/cm

### Shear Strength (Minimum)

- 20 N/cm²
- 18 N/cm²
- 12.5 N/cm²
- 25 N/cm²
- 10 N/cm²
- 8 N/cm²
- 8 N/cm²
- 8 N/cm²

### Standard Colours

- Black
- Black, white
- White
- Black
- Black, white, beige
- Black, white
- Black, white
- Black, white

### Some Applications

- Specialties
- Packaging: rigid packaging
- Specialties: technical applications
- Construction: polishing disc
- Specialties: technical applications
- Construction: polishing disc
- Specialties
- Construction: polishing disc
- Specialties
- Apparel: sofa covers
- Construction: polishing disc
- Specialties
- Medical: disposable

### Distinctive Characteristics

- Good foam adhesion
- Strong peel and shear
- Strong peel and shear
- Good foam adhesion
- Strong shear
- Sewable
- Excellent for limited cycle life
- Sewable
- High frequency weldable
- Sterilisable

* Available with Antibacterial treatment.

### Note:

All the data indicated in this brochure are for reference only. Please contact us for more detailed information.
## Plastic Hook Tapes

### Features
- Thin, flexible, resilient, and tough
- Several proprietary hook shapes
- Available in widths up to 320 mm
- Customised colours upon request
- Hook density up to over 500/cm²
- Designed to engage a full range of loop fabrics
- Cycling capabilities from disposable to long cycle life
- Dielectrically and sonically sealable, sewable
- Flexibility-ideal for stitching and slitting, as well as straight and die-cutting
- Adaptability from unidirectional hooks to wide selvedges or channels

### Hook Shapes

<table>
<thead>
<tr>
<th>Shape</th>
<th>Width (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>0.89</td>
</tr>
<tr>
<td>24</td>
<td>2.46</td>
</tr>
<tr>
<td>97</td>
<td>0.31</td>
</tr>
<tr>
<td>20</td>
<td>1.27</td>
</tr>
<tr>
<td>29</td>
<td>0.39</td>
</tr>
<tr>
<td>99</td>
<td>0.61</td>
</tr>
<tr>
<td>241</td>
<td>1.35</td>
</tr>
<tr>
<td>233</td>
<td>0.71</td>
</tr>
<tr>
<td>22</td>
<td>0.71</td>
</tr>
<tr>
<td>36</td>
<td>1.45</td>
</tr>
</tbody>
</table>

### Product Specifications

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Hook 848</th>
<th>Hook 866</th>
<th>Hook 733</th>
<th>Hook 751</th>
<th>Hook 759</th>
<th>Hook MVA8-E</th>
<th>Hook 790</th>
<th>Hook 830</th>
<th>Hook 839</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting Point (Hook)</td>
<td>145 °C</td>
<td>150 °C</td>
<td>160 °C</td>
<td>250 °C</td>
<td>250 °C</td>
<td>250 °C</td>
<td>150 °C</td>
<td>150 °C</td>
<td>169 °C</td>
</tr>
<tr>
<td>Loop for Data Reference</td>
<td>Velour 3610</td>
<td>Velour 3165</td>
<td>Loop 001</td>
<td>Loop 001</td>
<td>Loop 001</td>
<td>Loop 001</td>
<td>Velour 3165</td>
<td>Velour 3165</td>
<td>Velour 3165</td>
</tr>
<tr>
<td>Cycle Life</td>
<td>Medium</td>
<td>Medium</td>
<td>Medium</td>
<td>High/Medium</td>
<td>High/Medium</td>
<td>High/Medium</td>
<td>Medium/Low</td>
<td>Medium/Low</td>
<td>High</td>
</tr>
<tr>
<td>Peel Strength (Minimum)</td>
<td>0.7 N/cm</td>
<td>0.6 N/cm</td>
<td>2 N/cm</td>
<td>1.5 N/cm</td>
<td>1.5 N/cm</td>
<td>1.5 N/cm</td>
<td>0.6 N/cm</td>
<td>0.6 N/cm</td>
<td>0.6 N/cm</td>
</tr>
<tr>
<td>Shear Strength (Minimum)</td>
<td>17.2 N/cm²</td>
<td>8 N/cm²</td>
<td>12 N/cm²</td>
<td>12 N/cm²</td>
<td>-</td>
<td>12 N/cm²</td>
<td>8.6 N/cm²</td>
<td>8.6 N/cm²</td>
<td>15 N/cm²</td>
</tr>
<tr>
<td>Standard Colours</td>
<td>Black, white, natural</td>
<td>Black, white, natural</td>
<td>Black</td>
<td>Black, natural</td>
<td>Black</td>
<td>Black, natural</td>
<td>Black, white</td>
<td>Black, white, natural</td>
<td>Black</td>
</tr>
<tr>
<td>Some Applications</td>
<td>Medical: pouches, blood pressure cuffs, compression devices</td>
<td>Construction: carpet</td>
<td>Medical: deep vein thrombosis</td>
<td>Construction: roofing, outdoors applications</td>
<td>Construction: Transportation</td>
<td>Specialities</td>
<td>Transportation</td>
<td>Apparel: sofa covers</td>
<td>Packaging</td>
</tr>
<tr>
<td>Distinctive Characteristics</td>
<td>High frequency weldable</td>
<td>Reduced number of uses</td>
<td>UV resistant</td>
<td>Very strong fixation</td>
<td>Good adhesion on framing process</td>
<td>Excellent molding feature</td>
<td>High shear strength</td>
<td>Edges allowing sewing and high frequency welding</td>
<td>Strong fixation</td>
</tr>
</tbody>
</table>
**Plastic Hook Tapes**

**Characteristics**

<table>
<thead>
<tr>
<th>Shape</th>
<th>DENSITY</th>
<th>Suggested Mating Components</th>
</tr>
</thead>
<tbody>
<tr>
<td>36</td>
<td>20 hooks/cm²</td>
<td>Medium to high profile loops</td>
</tr>
<tr>
<td>97</td>
<td>310 hooks/cm²</td>
<td>Low profile loops to nonwoven fabrics</td>
</tr>
<tr>
<td>108</td>
<td>140 hooks/cm²</td>
<td>Low profile loops to nonwoven fabrics</td>
</tr>
</tbody>
</table>

**Product Name**

<table>
<thead>
<tr>
<th>Hook</th>
<th>BASE MATERIAL</th>
<th>MELTING POINT (HOOK)</th>
<th>LOOP FOR DATA REFERENCE</th>
<th>CYCLE LIFE</th>
<th>PEEL STRENGTH (MINIMUM)</th>
<th>SHEAR STRENGTH (MINIMUM)</th>
<th>STANDARD COLOURS</th>
<th>SOME APPLICATIONS</th>
<th>DISTINCTIVE CHARACTERISTICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>736</td>
<td>Hook: Polyamide 6.6</td>
<td>250 ºC</td>
<td>Loop 001</td>
<td>High</td>
<td>1.5 N/cm</td>
<td>12 N/cm²</td>
<td>Black</td>
<td>Construction: polishing disc</td>
<td>High shear strength, Good adhesion</td>
</tr>
<tr>
<td>819</td>
<td>Hook: Polypropylene</td>
<td>150 ºC</td>
<td>Velour 3905</td>
<td>Low</td>
<td>0.15 N/cm</td>
<td>16 N/cm²</td>
<td>Natural</td>
<td>Personal care:</td>
<td>Disposable, Improved performance with nonwovens</td>
</tr>
<tr>
<td>798</td>
<td>Hook: Polypropylene</td>
<td>150 ºC</td>
<td>Velour 3905</td>
<td>Low</td>
<td>0.4 N/cm</td>
<td>16 N/cm²</td>
<td>Blue</td>
<td>Industrial:</td>
<td>High shear, Improved tear resistance, Compatible with PS adhesives</td>
</tr>
<tr>
<td>847</td>
<td>Hook: Polypropylene</td>
<td>150 ºC</td>
<td>Velour 3905</td>
<td>Low</td>
<td>0.4 N/cm</td>
<td>16 N/cm²</td>
<td>Natural</td>
<td>Medical Personal Care:</td>
<td>Disposable, High shear resistance</td>
</tr>
<tr>
<td>765</td>
<td>Hook: Polyamide 12</td>
<td>169 ºC</td>
<td>Velour 3610</td>
<td>Medium</td>
<td>1.5 N/cm</td>
<td>20.6 N/cm²</td>
<td>Black, natural</td>
<td>Medical: orthopaedics</td>
<td>Hook-hook laminate without the use of adhesives, Two different performance options</td>
</tr>
<tr>
<td>PRESS-LOK® 731</td>
<td>Hook: Polyamide Polypropylene</td>
<td>150 ºC</td>
<td>Velour 3610</td>
<td>High</td>
<td>0.8 N/cm</td>
<td>13.7 N/cm²</td>
<td>Natural</td>
<td>Packaging: stationery, promotional gift</td>
<td>Self-engaging hook (no fibre particles), High shear resistance, Audible closure click</td>
</tr>
<tr>
<td>PRESS-LOK® 241</td>
<td>Hook: Polyethylene</td>
<td>120 ºC</td>
<td>PRESS-LOK® 731</td>
<td>High</td>
<td>0.6 N/cm</td>
<td><strong>Cd</strong>: 7 N/cm²</td>
<td>Natural</td>
<td>Construction: panels fixation, Packaging: rigid packaging</td>
<td>Self-engaging hook (no fibre particles), High shear resistance, Audible closure click</td>
</tr>
</tbody>
</table>

**Remarks:**

1. Peel strength is highly affected by the substrate it is applied on.

*Tape direction. **Cross direction.
## Hook Lamination Technology

VELCRO® Brand

**PATENTED ONE-WRAP® & FLEX-ZONE™ TECHNOLOGIES PROVIDE THE ABILITY TO EXTRUDE HOOKS OR FLAT-ZONES CONTINUOUSLY ON A VARIETY OF LAMINATES AND SUBSTRATES.**

### Characteristics

<table>
<thead>
<tr>
<th>CHARACTERISTICS</th>
<th>FULL WIDTH HOOK COVERAGE</th>
<th>SINGLE HOOK LANE</th>
<th>MULTIPLE HOOK LANES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SHAPE 29</strong></td>
<td><img src="image1.png" alt="image" /></td>
<td><img src="image2.png" alt="image" /></td>
<td><img src="image3.png" alt="image" /></td>
</tr>
<tr>
<td><strong>SHAPE 29</strong></td>
<td><img src="image4.png" alt="image" /></td>
<td><img src="image5.png" alt="image" /></td>
<td><img src="image6.png" alt="image" /></td>
</tr>
<tr>
<td><strong>SHAPE 108</strong></td>
<td><img src="image7.png" alt="image" /></td>
<td><img src="image8.png" alt="image" /></td>
<td><img src="image9.png" alt="image" /></td>
</tr>
</tbody>
</table>

### Density

- **272 hooks/cm²**
- **272 hooks/cm²**
- **152 hooks/cm²**

### Suggested Mating Components

- Self-engaging
- Self-engaging
- Nonwoven loops

### Product Name

- **ONE-WRAP® 29**
- **HOOK 703**
- **HOOK 796**
- **HOOK 797**
- **HOOK 898**
- **MESH 701**

### Base Material

- Hook: Polypropylene
- Hook: Polypropylene
- Hook: Polypropylene
- Hook: Polypropylene
- Hook: Polypropylene
- Hook: Polypropylene
- Hook: Polypropylene
- Hook: Polypropylene
- Hook: Polypropylene
- Hook: Polypropylene

### Melting Point

- Hook 150 ºC
- Hook 120 ºC
- Hook 150 ºC
- Hook 150 ºC
- Hook 150 ºC
- Hook 150 ºC

### Loop for Data Reference

- ONE-WRAP® 29
- Velour 3100
- Velour 3610
- Velour 3905
- Nonwoven (polyester)
- Velour 3905
- Velour 3905

### Cycle Life

- Medium
- Low
- Medium/Low
- Medium/Low
- Medium/Low
- Low

### Peel Strength

- 0.4 N/cm
- 0.4 N/cm
- 0.4 N/cm
- 0.9 N/cm
- 0.9 N/cm
- 0.6 N/cm

### Shear Strength

- 7 N/cm²
- 7 N/cm²
- 10 N/cm²
- 10 N/cm²
- 13 N/cm²
- 16 N/cm²

### Standard Colours

- Black, white, yellow, green, blue, red
- Moss green
- Hook: Black
- Hook: Black
- Hook: Natural
- Hook: Natural
- Natural

### Standard Width (mm)

- Hook lane: 30
- Hook lane: 15
- Hook lane: 10
- Hook lane: 12
- Hook lane: 15/15

### Easy Peel Feature

- Yes
- Yes
- Yes
- Yes
- ̅

### Some Applications

- Transportation: cable protection and handling
- Ideal for fibre optics
- Specialties: agriculture and plant tie
- Hook-loop lamination without the use of adhesives
- Strong self-engaging

### Distinctive Characteristics

- Hook-loop lamination without the use of adhesives
- Disposable self-engaging
- Ideal for closure with nonwovens

---

### Notes

- **Velour 3800 (polyamide)**
- **Velour 3110 (polyester)**
- **Velour 3905 (polyamide)**
- **Nonwoven (polypropylene)**
- **Polyamide 6.6**
- **Polyamide 12**
METHODS OF ATTACHMENT

- Pressure sensitive adhesives
  (See VELCRO® Brand Adhesives Range)
- Heat or solvent activated adhesives
  (See VELCRO® Brand Adhesives Range)
- Sewing
- Welding
- Mechanical
- Mold-in

FABRICATION

- Slitting
- Scored cut
- Pre-cut
- Mated
- Die cut
- Perforated
- Custom manufactured straps
- Complete product assembly

PRINTING

- Flexography
- Hot stamping
- Pad printing
- Heat transfer labels

PACKAGING

- Rolls
- Spools
- Shipping boxes
- Labels
- Sealed bag
- Blister
- Folding boxes
- Bundling
- Bulk
- Customised packaging

APPLICATIONS
VELCRO INDUSTRIES ARE WORLDWIDE LEADERS IN FASTENING SYSTEMS OFFERING A WIDE RANGE OF SOLUTIONS, FROM STANDARD HOOK AND LOOP TO COMPLETE FINISHED PRODUCTS.

50 YEARS OF EXPERIENCE: WE ARE PROUD OF OUR HERITAGE IN INNOVATION HAVING OVER 300 ACTIVE PATENTS TO OFFER BETTER SOLUTIONS TO SATISFY OUR CUSTOMERS’ NEEDS.

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VELCRO INDUSTRIES AROUND THE WORLD

- Sales offices
- Manufacturing facilities
- Research & Development centres

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