

VELCRO® Brand

Textile Hook and Loop Tapes



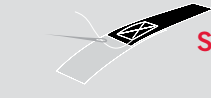
WOVEN HOOKS & MUSHROOMS • WOVEN, KNITTED & NONWOVEN LOOPS



METHODS OF ATTACHMENT



Pressure sensitive adhesives
(See VELCRO® Brand Adhesives Range)



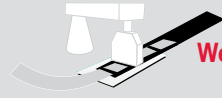
Sewing



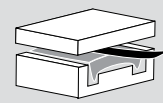
Mechanical



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

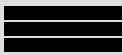


Welding



Mold-in

FABRICATION



Slitting



Scored cut



Custom manufactured straps



Pre-cut



Mated



Complete product assembly

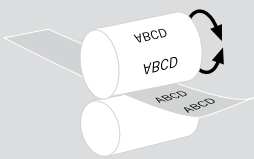


Die cut

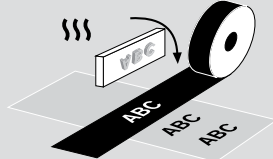


Perforated

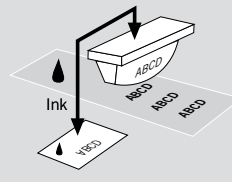
PRINTING



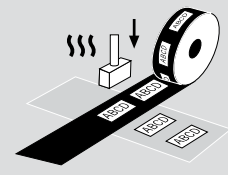
Flexography



Hot stamping



Pad printing



Heat transfer labels

PACKAGING



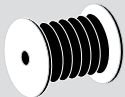
Rolls



Sealed bag



Bundling



Spools



Blister



Bulk



Shipping boxes



Folding boxes



Customised packaging



Labels

APPLICATIONS



APPAREL



CONSTRUCTION



MEDICAL



MILITARY &
GOVERNMENT



PACKAGING
& MATERIALS
HANDLING



PERSONAL
CARE



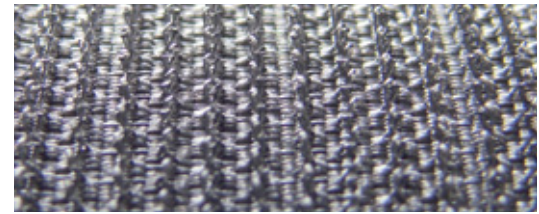
TRANSPORTATION




OTHER
INDUSTRIES




VELCRO® Brand
Hook Tapes

WOVEN HOOK TAPES CONSIST OF MINUTE, FLEXIBLE HOOKS OR MUSHROOMS WHICH ENGAGE WITH A MATING WOVEN, KNITTED OR NONWOVEN LOOP TAPE COMPRISED OF SMALL, SOFT LOOPS OR YARNS



 **WOVEN HOOKS**

 **WOVEN MUSHROOMS**

| CHARACTERISTICS | Hook 088 * *** | Hook PSI **** | Hook 066 HI-AIR® * | Hook 081 Polyester * | VEL-LOC® 085 * | SUPER VEL-LOC® 083 * | SUPER VEL-LOC® Quadrilobal * |
|--|--|---|--|--|--|-------------------------------|--|
| SUGGESTED MATING COMPONENTS | Loop 001 | Loop PSI | Loop 003 HI-AIR® | Loop 9000 Polyester | Velour 3165 standard | Loop 001 | Loop 001 |
| BASE MATERIAL | Polyamide | Polyamide | Polyamide NOMEX® fibers ¹ | Polyester | Polyester Polypropylene | Polyester Polypropylene | Polyester Polypropylene |
| CONSTRUCTION | Heavy duty hook tape | Woven edges | Woven edges | Woven | Mushroom hook | High density mushroom hook | Agressive "arrow head" mushroom hook |
|  CYCLE LIFE | High | High | Medium | Medium | Medium | Medium/Low | Low |
|  PEEL STRENGTH (AVERAGE) | 2 N/cm | ** | 0.9 N/cm | 1.4 N/cm | 2 N/cm | 7 N/cm | 24 N/cm |
|  SHEAR STRENGTH (AVERAGE) | 10.3 N/cm ² | ** | 5.2 N/cm ² | 9.7 N/cm ² | 20 N/cm ² | 70 N/cm ² | 115 N/cm ² |
| BREAKING STRENGTH (MINIMUM) | 210 N/cm | ** | - | - | 220 N/cm | 350 N/cm | Min. 300 N/cm |
| STANDARD COLOURS | 20 colours | Black, white, nato green, navy blue, royal blue | Natural, camouflage green | Black, white, camouflage green | 10 colours | Black, white, beige, grey | Black, white |
| STANDARD WIDTHS (mm) | 16, 20, 25, 30, 38, 50, 100, 107,150 | 16, 20, 25, 30, 38, 50, 105 | 25.4mm (1") 50.8mm (2") | 25.4mm (1") 50.8mm (2") 101.6mm (4") | 16, 20, 25, 30, 38, 50, 100, 125, 160, 190 | 16, 20, 30, 50, 100 | Max. 111 |
| STANDARD PUT-UPS | 25m rolls | 25m rolls | 45.72m (50 yd) rolls | 45.72m (50 yd) rolls | 25m rolls | 25m rolls | 25m rolls |
| | Consumer boxes | | | | Consumer boxes | | |
| | Spools | | | | Spools | | |

* Available with F.R.T. treatment (meets FAR 25853, MVSS 302).

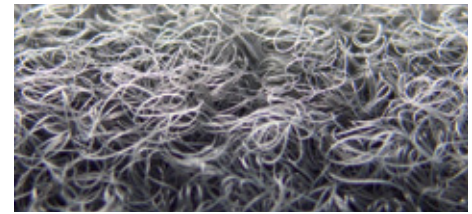
** Meets military requirements established by the French Army standard (Brochure 5508 GPEM/TC) and the Swedish Army standard FMV (Technical specification 11861 E).

*** Available with Antibacterial treatment.




**** Available with Infrared treatment.

VELCRO® Brand
Loop Tapes

A DIVERSITY OF WOVEN, KNITTED OR NONWOVEN LOOP TAPES ARE AVAILABLE TO MEET DIFFERENT PERFORMANCE CHARACTERISTICS WHEN COMBINED WITH WOVEN OR PLASTIC HOOK TAPES



 **WOVEN LOOPS**

| CHARACTERISTICS | Loop 001 * *** | Loop Pre-shrunk | Loop 002 | Loop PSI **** | Loop 003 HI-AIR® * | Loop 9000 Polyester * | VELSTRETCH® |
|---|---------------------------------------|--------------------------|---|---|--|--|---|
| SUGGESTED MATING COMPONENTS | Hook 088 | Hook 088 | Hook PSI | Hook PSI | Hook 066 HI-AIR® | Hook 081 Polyester | Hook 088 |
| BASE MATERIAL | Polyamide | Polyamide | Polyester Polyamide | Polyamide | Polyamide NOMEX® fibers ¹ | Polyester | Polyamide Synthetic rubber |
| CONSTRUCTION | Napped finish | Napped pre-shrunk finish | Unnapped finish Woven edges | Unnapped finish Woven edges | Unnapped finish Woven edges | Unnapped finish | Woven elastic |
|  CYCLE LIFE | High | High | High | High | Medium | Medium | Medium |
|  PEEL STRENGTH (AVERAGE) | 2 N/cm | 2 N/cm | 0.9 N/cm | ** | 0.9 N/cm | 1.4 N/cm | - |
|  SHEAR STRENGTH (AVERAGE) | 10.3 N/cm ² | 10.3 N/cm ² | 12 N/cm ² | ** | 5.2 N/cm ² | 9.7 N/cm ² | Min. 2.8 N/cm ² |
| BREAKING STRENGTH (MINIMUM) | 210 N/cm | 210 N/cm | - | ** | - | - | 801 N/cm |
| STANDARD COLOURS | 20 colours | White | Royal blue, white, grey, red, green, yellow | Black, white, nato green, navy blue, royal blue | Natural, camouflage green | Black, white, camouflage green | Black, white, beige, navy blue, raw |
| STANDARD WIDTHS (mm) | 16, 20, 25, 30, 38, 50, 100, 107, 150 | 100, 105, 107 | 105 | 16, 20, 25, 30, 38, 50, 105 | 25.4mm (1") 50.8mm (2") | 25.4mm (1") 50.8mm (2") 101.6mm (4") | 15.88mm (5/8") 19.01mm (3/4") 25.4mm (1") 38.1mm (1-1/2") 50.8mm (2") |
| STANDARD PUT-UPS | 25m rolls Consumer boxes Spools | 25m rolls | 100m rolls | 25m rolls | 45.72m (50 yd) rolls | 45.72m (50 yd) rolls | 36.58m (40 yd) rolls |

¹ NOMEX® is a reg. tm of E.I. du Pont de Nemours and Company.

TYPES OF CLOSURES



Woven hook & woven loop






Woven mushroom & knitted loop



Plastic hook & nonwoven loop

KNITTED LOOPS

NONWOVEN LOOPS

| CHARACTERISTICS | Velour 401 | | Velour 3165 standard | | Velour 3894 light | | Velour 3969 | | Velour 3200 | | FNL 251 | FNL 403 |
|--|---|-----------|--|-----------|--|-----------|--|-----------|--|-----------|-------------------------------|-------------------------------|
| SUGGESTED MATING COMPONENTS | Hook 088 | | VEL-LOC® 085 | | VEL-LOC® 085 | | VEL-LOC® 085 | | VEL-LOC® 085 | | Hook 819 | Hook 847 |
| BASE MATERIAL | Polyamide | | Polyamide | | Polyamide | | Polyamide | | Polyester | | Polypropylene Polyester | Polypropylene |
| CONSTRUCTION | Wrap knit Napped finish High pile Ideal for high cycle life products | | Wrap knit Napped finish Low pile | | Wrap knit Napped finish Low pile | | Wrap knit Napped finish Low pile | | Wrap knit Light weight Ideal for disposable products | | Nonwoven | Nonwoven |
|  CYCLE LIFE | High | | Medium | | Medium | | Medium/Low | | Low | | Low | Low |
|  PEEL STRENGTH (AVERAGE) | 1.8 N/cm | | 1.5 N/cm | | 1 N/cm | | 0.8 N/cm | | 2 N/cm | | 1.6 N/cm | 1.7 N/cm |
|  SHEAR STRENGTH (AVERAGE) | 3 N/cm ² | | 16 N/cm ² | | 15 N/cm ² | | 13 N/cm ² | | 15 N/cm ² | | 12.1 N/cm ² | 8.1 N/cm ² |
| BREAKING STRENGTH (MINIMUM) | 80 N/cm | | 55 N/cm | | 65 N/cm | | 65 N/cm | | 25 N/cm | | - | - |
| STANDARD COLOURS | Black, white, beige, grey | | 10 colours | | Black, white, beige, grey | | Black, white | | White | | White | White |
| STANDARD WIDTHS (mm) | 16, 20, 25, 30, 38, 50, 100, 125 | 1500 | 16, 20, 25, 30, 38, 50, 100, 125 | 1400 | 16, 20, 25, 30, 38, 50, 100, 125 | 1400 | 16, 20, 25, 30, 38, 50, 100, 125 | 1400 | 20, 25, 30, 40, 50, 70, 100 | 1500 | 25.4mm (4") 3,048mm (120") | 25.4mm (4") 3,048mm (120") |
| STANDARD PUT-UPS | 25m rolls | 25m rolls | 25m rolls | 51m rolls | 25m rolls | 51m rolls | 25m rolls | 51m rolls | 50m rolls | 51m rolls | 3,600m rolls | 3,600m rolls |

NOTE: All the data indicated in this brochure are for reference only. Please, contact us for more detailed information.



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