

VELCRO® Brand

Textile Hook and Loop Tapes

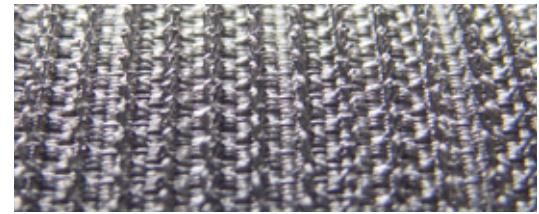


WOVEN HOOKS & MUSHROOMS • WOVEN, KNITTED & NONWOVEN LOOPS






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.

METHODS OF ATTACHMENT



Pressure sensitive adhesives
(See VELCRO® Brand Adhesives Range)



Sewing



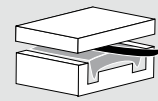
Mechanical



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

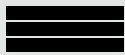


Welding



Mold-in

FABRICATION



Slitting



Scored cut



Custom manufactured straps



Pre-cut



Mated



Complete product assembly

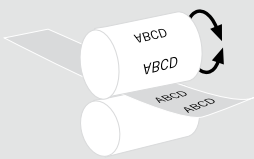


Die cut

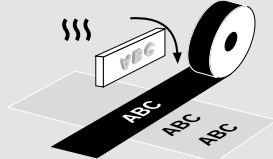


Perforated

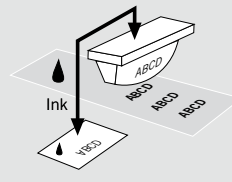
PRINTING



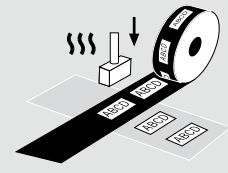
Flexography



Hot stamping



Pad printing



Heat transfer labels

PACKAGING



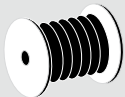
Rolls



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 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.



USA

Velcro USA Inc.
Tel: (+800) 225 0180
marketing@velcro.com
www.velcro.com

Canada

Velcro Canada Inc.
Tel: (+800) 683 5276
canada@velcro.com
www.velcro.ca

Mexico

Velcro de Mexico, S.A. de C.V.
Tel: (+52) 55 5005 3300
salesmc@velcro.com
www.velcrodemexico.com

Spain

Velcro Europe S.A.
Tel: (+34) 93 758 32 98
infovelcro@velcro.es
www.velcro.es

Germany

Velcro GmbH
Tel: (+49) 7141 991 19-0
info@velcro.de
www.velcro.de

France

Velcro Industries France S.A.S.
Tel: (+33) 0 1 34 38 78 88
info@velcro.fr
www.velcro.fr

Italy

Velcro Italia, S.R.L.
Tel: (+39) 039 62 70 01
commerciale@velcro.com
www.velcro.it

UK

Velcro Limited
Tel: (+44) 1606 73 88 06
uksales@velcro.com
www.velcro.co.uk

Australia

Velcro Australia Pty. Ltd.
Tel: (+61) 3 9703 2466
sales@velcro.com.au
www.velcro.com.au

China

Velcro China Fastening Systems Company Limited
Tel: (+86) 21 6045 2090
(Shanghai Sales Office)
www.velcro.com.cn

Hong Kong

Velcro Hong Kong Ltd.
Tel: (+852) 2570 3698

VELCRO INDUSTRIES AROUND THE WORLD

