VELCRO® Brand Woven and Knitted Fasteners

Nylon Hook & Loop Fasteners

From Velcro USA Inc.

VELCRO* brand nylon fasteners consist of two mating components: hook and loop. The woven hook tape consists of minute, flexible "hooks" which engage with a mating loop tape comprised of small, soft "loops."

When pressed together, the resulting closure is adjustable, highly secure and jam proof. To reopen (cycle), the closure is simply peeled apart.

VELCRO® brand woven hook and loop tapes are manufactured by a precise and refined weaving process, which ensures uniformity of dimensions and construction.

ATTACHMENT

A wide range of attachment methods are available, including:

- Sewing
- Pressure Sensitive Adhesives
- Dielectric Heat Sealing (RF)
- · Heat Activation
- Solvent Activation
- Mechanical
- · Ultrasonic Welding
- · Mold-In



For further information about specific attachment procedures, please contact your account manager or local sales office.

Velcro USA Inc. offers a Sewing Guide in English and Spanish versions.

WOVEN NYLON HOOK & LOOP TAPES

Velcro USA Inc. offers two nylon woven hook tapes and two woven nylon loop tapes.

- Hook #65 Designed for maximum cycling (opening and closing); 6.5 mil nylon monofilament with over 400 hooks per square inch.
- Hook #88 Heavy duty hook tape somewhat lower cycle life than Hook #65; 8.0 mil nylon monofilament with over 300 hooks per square inch.
- Loop #1000 A napped loop tape used in most standard closure applications with both Hook #65 and #88.
- Loop #2000 An unnapped loop tape with a greater cycle life and lower initial peel strength than Loop #1000. Typically used where closure is to be effected around a radius (such as a strapping application).

"Napped" versus "Unnapped" Loop. Essentially, napped tape consists of woven nylon loops that are "randomly disoriented" in a separate operation after weaving. An unnapped tape is a woven nylon tape that is not napped.



KNIT NYLON LOOP TAPES

#3001, #3003, #3610, #3008, #3905, #3200 – Knit nylon loop tapes have been designed for use in a wide range of applications from disposable products to high strength fabricated straps. See the chart on pages 2 and 3 for detailed information.



VELCRO® Brand Hook And Loop Fastening To

VELCRO® BRAND CLOSURE PERF

			SHEAR	SHEAR	TENSION OR	PEEL STRENGTH
PRODUCT STYLE AND	AVAILABLE MATING	CYCLE	STRENGTH LENGTH-WISE	STRENGTH WIDTH-WISE	LATCHING EFFECT P.S.I	LENGTH-WISE P.I.W.
SUGGESTED FASTENING USAGE	COMPONENTS	LIFE	P.S.I. TYPICAL	P.S.I. TYPICAL	TYPICAL	TYPICAL
WOVEN NYLON HOOK AND	LOOP FAST	ENERS			<u></u>	
Loop #1000 – napped finish; everyday fastening products	Hook #65	HIGH	13.0	9.5	6.5	1.00
	Hook #88	HIGH	14.0	10.5	6.5	1.20
Loop #2000 – unnapped finish; or more demanding applications	Hook #65	HIGH	7.5	6.5	7.5	0.35
or more demanding applications	Hook #88	HIGH	8.5	7.0	8.5	0.35
CNITTED NYLON LOOP TAI	PES TO BE FA	ASTENED	WITH WOV	EN HOOK TA	PES	
Loop #3001 – napped finish; high	PES TO BE FA	ASTENED HIGH	WITH WOV	EN HOOK TA	PES 6.2	1.40
KNITTED NYLON LOOP TAR Loop #3001 – napped finish; high pile; substitute for Loop #1000 where applications require less cycle life						1.40
Loop #3001 – napped finish; high pile; substitute for Loop #1000 where	Hook #65	HIGH	12.0	6.5	6.2	
Loop #3001 – napped finish; high pile; substitute for Loop #1000 where applications require less cycle life Loop #3003 – napped finish; medium height pile; economy;	Hook #65	HIGH HIGH	12.0	7.0	6.2	1.60

9.4

7.5

16.0

8.0

7.0

20.0

9.0

7.5

6.0

0.40

0.35

0.75

Hook #65

Hook #88

Hook #711

LOW

LOW

LOW

Loop #3905 - napped finish; low

fabric; ideal for disposable products

pile; economy; low profile loop

Loop #3200 - a warp polyester

knit; lightweight - ideal for

disposable products

pes - Woven & Knitted Nylon

STANDARD

WIDTHS

STANDARD

PUT-UPS

AVAILABLE

COLORS

RMANCE

TEMP. RANGE BASED

UPON 1,000 HOURS

OF EXPOSURE				
LOW HIC	GH			
-70°F/-56.7°C to 200°F/93.3°C -70°F/-56.7°C to 200°F/93.3°C		5/8", 3/4", 1", 1-1/2", 2", and 4"	50 yd Reels, Dispenser Packs and Cross-Wound Spools	Wide range of colors with dye-to-match capability
-70°F/-56.7°C to 200°F/93.3°C -70°F/-56.7°C to 200°F/93.3°C		5/8", 3/4", 1", 1-1/2", 2", and 4"	50 yd Reels, Dispenser Packs and	Wide range of colors with dye-
			Cross-Wound Spools	to-match capability
		SHOWS IN BOR ING		rar din 3460 Genev evez libras lagge elidik Tyrkelly u linea enkalenden
-70°F/-56.7°C to 200°F/93.3°C		5/8", 3/4", 1", 1-1/2", 2", 3", 4", and 6"	25 yd Reels, Dispenser Packs and	White, Black with dye-to-
-70°F/-56.7°C to 200°F/9	3.3°C	54" Full Width	Cross-Wound Spools	match capability
-70°F/-56.7°C to 200°F/9	3.3°C	5/8", 3/4", 1", 1-1/2", 2", and 4" 57" Full Width	40 yd Reels, Dispenser Packs and Cross-Wound Spools	White, Black with dye-to- match capability
-70°F/-56.7°C to 200°F/9	3.3°C	5/8", 3/4", 1", 1-1/2", and 2" 50" Full Width	50 yd Reels and Dispenser Packs	White, Black with dye-to- match capability
-70°F/-56.7°C to 200°F/93	3.3℃	5/8", 3/4", 1", 56" Full Width	100 yd Reels	White, Black with dye-to- match capability
-70°F/-56.7°C to 200°F/9	3.3°C	5/8", 3/4", 1", 1-1/2", and 2"	100 yd Reels and	White, Black with dye-to- match capability
-70°F/-56.7°C to 200°F/9	3.3°C	54" Full Width	Dispenser Packs	
-70°F/-56.7°C to 200°F/9	3.3°C	54" Full Width – can slit to 3/4"	125 yd Reels	White with dye-to-match capability

PRESSURE SENSITIVE ADHESIVES

Many VELCRO® brand woven, knitted and HTH products can be supplied with one of several factory-applied adhesive pre-coats for applications which require mounting utilizing pressure sensitive fasteners. Please inquire.

VELCRO® BRAND 13

- A rubber-based pressure sensitive adhesive formulated for outdoor applications and moist environments
- Maximum operating temp: 180°F

VELCRO BRAND 14

- A strong rubber-based, pressure sensitive adhesive
- Designed for applications with a temperature operating range from -40°F to 160°F

VELCRO BRAND IS

- An aggressive, rubber-based pressure sensitive adhesive
- Designed for applications with a temperature operating range from -40°F to 120°F

VELCRO BRAND 19

- A rubber-based, pressure sensitive adhesive formulated for low energy plastics, substrates such as polyethylene & polypropylenes
- Temperature operating range from -40°F to 185°F

VELCRO BRAND 72

- An acrylic pressure sensitive adhesive for superior bond strength
- Temperature operating range from -20°F to 225°F

VELCRO- BRAND 75

- Acrylic pressure sensitive adhesive designed especially for application to rigid vinyl substrates
- Temperature operating range from -20°F to 230°F

FLAME RETARDANT

- Rubber-based pressure sensitive adhesive
- Designed to be coated on flame retardant nylon or polyester hook and loop tapes
- Meets FAR 25.853, BMS 8-285

SOLVENT OR HEAT ACTIVATED ADHESIVES

- Factory applied pre-coated adhesives
- Available on woven nylon VELCRO[®] brand hook and loop tapes
- Ready for immediate bonding to a substrate by various methods of application (e.g., solvent, heat, ultrasonic, dielectric (RF), etc.)
- Solvent or heat activated adhesives can be used as a tie coat for a liquid adhesive

MILITARY SPECIFICATIONS

A U.S. Military specification concerning VELCRO® brand fastening tapes has been issued. Please refer to AA55126 (in the latest government revision) titled "Fastening Tape, Hook and Loop Synthetic." VELCRO® brand tapes have been approved by the Defense Logistics Agency for the "Acceptable" Suppliers List (ASL #Ct-C-29). When military specification tapes are required, contact Velcro USA Inc. directly for the latest revisions and availability.

FLAME RETARDANT TAPES

Hook #88 and Loop #1000 are available with F.R. Treatment, tested in accordance with the following methods to meet the respective specifications:

- Federal Aviation Regulations Part 25.853
- Motor Vehicle Safety Standard 302
- Boeing Material Specification 8-285

A Certificate of Compliance is available upon request with each order. If required, Test Reports will be supplied by Velcro USA Inc. at an additional cost per color and per element – please inquire regarding charge.

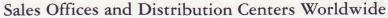
Flame Retardant product color availability: white, black, beige.

In addition, polyester Hook #81 and Loop #9000 are available in an F.R. version.

IMPORTANT NOTICE TO PURCHASER

All statements, technical advice and recommendations contained herein are based on tests believed to be reliable, but the accuracy there of is not guaranteed, and the following is made in lieu of all warranties, express or implied: seller's and manufacturer's only obligation shall be to replace the quantity of product proven to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use of or the inability to use the product. Before using, user shall determine the suitability of the product for his intended use, and user assumes all risk and liability whatsoever in connection therewith. No statement or recommendation not contained herein shall have any force or effect unless in an agreement signed by officers of seller and manufacturer.

For sales and technical information, please contact our Manchester, NH Sales Headquarters at (800) 225-0180 (press option 5).





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Velcro USA Inc. and Velcro Canada Inc. are ISO/TS16949:2002 registered companies.

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