

VELCRO® Brand ALFATEX® Hook Elastic Woven

Technical Data Sheet
 October 2021

PRODUCT DESCRIPTION



VELCRO® Brand ALFATEX® Hook Elastic Woven is a stretchy textile woven hook suitable for applications where elasticity is required. It is a woven medium profile Polyamide - synthetic rubber hook tape, that has medium cycle life when paired with VELCRO® Brand ALFATEX® Loop Elastic Woven.

VELCRO® Brand ALFATEX® Hook Elastic Woven is designed for everyday applications such as special training sport and military garments, backpacks, furniture covers, orthopaedics and many more.





Available in black and white, multiple widths, converted items and compatible with many application methods such as sewing and welding.

PRODUCT CONSTRUCTION

Fastening system	VELCRO® Brand ALFATEX® Hook Elastic Woven
Construction	Woven Fabric
Composition	Polyamide (±68%) and Synthetic rubber coating (±32%)
Thickness	2.0 - 3.0 mm
Weight	650 g/m2 ± 100g
Widths available + Variations*	20, 25 ± 1 mm 30, 38 ± 1.5 mm 50 ± 2.0 mm
Colour available	Black, white

* Other widths capabilities upon request

PERFORMANCE CHARACTERISTICS*

	Fastening system	VELCRO® Brand ALFATEX® Hook Elastic Woven
	Peel EN-12242	Minimum: 0.5 N/cm Average: 0.9 N/cm Tested with VELCRO® Brand ALFATEX® Loop Elastic woven
	Shear EN-13780	Minimum: 3.5 N/cm ² Average: 5.2 N/cm ² Tested with VELCRO® Brand ALFATEX® Loop Elastic Woven
	Cycle Life EN-1414	N/A
	Tensile Strength EN-ISO 13934-1	Minimum: 280 N/cm Average: 374 N/cm

* The average values are only for reference. Suitable performance for a specific intended application should be evaluated by the user.

PRODUCT COMBINATIONS

VELCRO® Brand ALFATEX® Hook Elastic Woven has been designed to be used with VELCRO® Brand ALFATEX® Loop Elastic woven.

SPECIAL CHARACTERISTICS*

Fastening system

VELCRO® Brand ALFATEX® Hook Elastic Woven



Shrinkage

EN-ISO-6330/EN 12243

Maximum 2% after 1 wash at 40°C



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Stretch by 50N (lengthwise)

20 - 25 - 30mm : Minimum 10% / Average: 48%
38 - 50mm: Minimum 5% / Average: 25%

ADDITIONAL PERFORMANCE CHARACTERISTICS



Outdoor use

Since the product is made with Polyamide, which has a known tendency to degrade in UV light, **VELCRO® Brand ALFATEX® Hook Elastic Woven** is not recommended for direct, prolonged exposure to UV light.



Resistance to solvents

The Polyamide used in these fastening systems is resistant to cleaning with solvents or dry cleaning (e.g. tetrachloroethylene) and to accidental exposure to the most common solvents, but it is not resistant to prolonged exposure and its resistance to fluids used for transport, such as gasoline, motor oil and transmission fluids, has not been tested. We recommend testing the product for its specific application.



Fire resistance

VELCRO® Brand ALFATEX® Hook Elastic Woven does not have flame retardant properties, so their use in applications that require limited flame propagation is not recommended.



Water/Moisture resistance

Polyamide in this fastening system is resistant to cleaning with some solvents and to accidental exposure to the most common solvents; however, certain fluids used in transport, such as gasoline, motor oil or transmission fluids can cause degradation, particularly over long periods of time and at elevated temperatures. The product should be tested in use for a specific application.

VELCRO® Brand ALFATEX® Hook Elastic Woven can lose its properties if it comes in contact with water, and thus uses in water conditions is not recommended.



Sterilisation

These products have not been tested for physical sterilisation (autoclave, steam, gamma rays, etc.) or chemical sterilisation (ethylene oxide, hydrogen peroxide, etc.).

Colour fastness

Colour fastness to dry-cleaning (ISO 105 D-01): Min. 4
Colour fastness to rubbing (ISO 105 X-12): Min. 4
Colour fastness to water (ISO 105 E-01): Min. 4
Colour fastness to sea water (ISO 105 E-02): Min. 4
Colour fastness to sweat (ISO 105 E-04): Min. 4
Colour fastness to artificial light (ISO 105-B02): Min. 5
Colour fastness to washing (ISO 105-C06): Min. 4
Colour fastness to ironing (ISO 105-X11): Min. 3

**Biocompatibility**

VELCRO® Brand ALFATEX® Hook Elastic Woven has not been tested for biocompatibility.

**Electrostatic discharge**

VELCRO® Brand ALFATEX® Hook Elastic Woven has not been tested for electrostatic discharge after opening and closing the fastener. These products must first be tested in applications where electrostatic discharge is a concern.

**Seam strength**

VELCRO® Brand ALFATEX® Hook Elastic Woven can be applied to several substrates by sewing. A square stitch should be used when possible, but all common stitches also offer adequate strength. The choice of thread will depend on the application and substrate, but it should offer similar strength to stitching.

SUGGESTED APPLICATIONS

VELCRO® Brand ALFATEX® Hook Elastic Woven can be used in a wide variety of applications such as:



FOOTWEAR & APPAREL: Costumes, training sport garments, and special military stretch garments.



INDUSTRIAL: Backpacks, furniture covers.



PACKAGING: Returnable packaging applications.



MEDICAL: Orthopaedic back braces, protective padding, fetal monitoring belts.

We recommend testing the product before use since the conditions specific to each application may cause differences in performance.

REGULATORY ELEMENTS

For product declarations of conformity on regulatory elements and additional information, contact productcompliance_emea@velcro.com.

PRODUCT USE

The information, statements and comments contained within this document are based on our experience and testing and are believed to be accurate. However, because there are many factors involved in specific applications that can impact end use and performance, product users should always test the product for its ability to meet the requirements of their specific use and method of application.

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