

VELCRO® Brand ALFATEX®  
**Loop Polyester**

Technical Data Sheet  
October 2021

**PRODUCT DESCRIPTION**



**VELCRO® Brand ALFATEX® Loop Polyester** is a resistant & durable textile loop suitable for those applications where humidity, UV and chemical resistance are important in demanding environments. It is a woven medium profile Polyester loop tape, that has low cycle life when paired with VELCRO® Brand ALFATEX® Hook Polyester.

**VELCRO® Brand ALFATEX® Loop Polyester** is designed for outdoor low cycle life applications such as apparel and military accessories, furniture and covers, outdoor sports accessories and many more.





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

**PRODUCT CONSTRUCTION**

Fastening system	VELCRO® Brand ALFATEX® Loop Polyester
Construction	Woven Fabric
Composition	Polyester
Thickness	1.8 - 2.8 mm
Weight	325 g/m <sup>2</sup> ± 10%
Widths available + Variations*	16,20,25 ± 1mm 30,38,50 ±1.5mm 100 ± 5mm
Colour available	Black, white

\* Other widths capabilities upon request

**PERFORMANCE CHARACTERISTICS\***

	Fastening system	VELCRO® Brand ALFATEX® Loop Polyester
	<b>Peel</b> EN-12242	Minimum: 1.6 N/cm Average: 2.0 N/cm Tested with VELCRO® Brand ALFATEX® Hook Polyester
	<b>Shear</b> EN-13780	Minimum: 8.5 N/cm <sup>2</sup> Average: 10.0 N/cm <sup>2</sup> Tested with VELCRO® Brand ALFATEX® Hook Polyester
	<b>Cycle Life</b> EN-1414	50% of the minimum performance 500 cycles Tested with VELCRO® Brand ALFATEX® Hook Polyester
	<b>Tensile Strength</b> EN-ISO 13934-1	Minimum: 210 N/cm Average: 280 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® Loop Polyester** has been designed to be used with VELCRO® Brand ALFATEX® Hook Polyester and the VELCRO® Brand ALFATEX® adhesives range.

**SPECIAL CHARACTERISTICS\***

**Fastening system** VELCRO® Brand ALFATEX® Loop Polyester



**Shrinkage**  
EN-ISO-6330/EN 12243

Maximum 2% after 1 wash at 60°C



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**ADDITIONAL PERFORMANCE CHARACTERISTICS**

**Outdoor use**

Since the product is made with Polyester, which has a good resistance to UV-light, **VELCRO® Brand ALFATEX® Loop Polyester** is recommended for direct, prolonged exposure to UV-light.


**Resistance to solvents**

The Polyester 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® Loop Polyester** does not have flame retardant properties, so their use in applications that require limited flame propagation is not recommended.


**Water/Moisture resistance**

Polyester 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® Loop Polyester** has a good resistance to water, and the uses in water conditions is 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. 3  
 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 perspiration (ISO 105 E-04): Min. 4

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Colour fastness to artificial light (ISO 105-B-02): Min. 6  
Colour fastness to washing (ISO 105-C06): Min. 3  
Colour fastness to ironing (ISO 105-X11): Min. 4

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**Biocompatibility**

**VELCRO® Brand ALFATEX® Loop Polyester** has not been tested for biocompatibility.

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**Electrostatic discharge**

**VELCRO® Brand ALFATEX® Loop Polyester** 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.

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**Seam strength**

**VELCRO® Brand ALFATEX® Loop Polyester** 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.

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**SUGGESTED APPLICATIONS**

**VELCRO® Brand ALFATEX® Loop Polyester** can be used in a wide variety of applications such as:



**FOOTWEAR & APPAREL:** Outdoor apparel and military accessories.



**INDUSTRIAL:** Outdoor furniture and covers, outdoor sports accessories.



**CONSTRUCTION:** Outdoor signage and panel fixations.



**PACKAGING:** External storage box closures.



**MEDICAL:** Orthopaedics Braces.

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

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**REGULATORY ELEMENTS**

For product declarations of conformity on regulatory elements and additional information, contact [productcompliance\\_emea@velcro.com](mailto:productcompliance_emea@velcro.com).

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**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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Velcro Companies<sup>(\*)</sup> warrants that all of its products will substantially comply with its written specifications at the time of shipment. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED. The product user is responsible for determining whether the product is fit and suitable for the intended application. If the product does not meet specifications as warranted, we will, at our option, repair or replace the product, or credit or refund the purchase price. The foregoing constitutes the user's sole remedy and our sole obligation hereunder.

<sup>(\*)</sup> Velcro Companies includes all the partner companies involved in the development, manufacture or sale of the products.

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