

VELCRO® Brand ALFATEX®
Hook Polyester
Technical Data Sheet
October 2021

PRODUCT DESCRIPTION


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

VELCRO® Brand ALFATEX® Hook 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® Hook Polyester
Construction	Woven Fabric
Composition	Polyester
Thickness	1.9 - 2.3 mm
Weight	340 g/m ² ± 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® Hook Polyester
	Peel EN-12242	Minimum: 1.6 N/cm Average: 2.0 N/cm Tested with VELCRO® Brand ALFATEX® Loop Polyester
	Shear EN-13780	Minimum: 8.5 N/cm ² Average: 10.0 N/cm ² Tested with VELCRO® Brand ALFATEX® Loop Polyester
	Cycle Life EN-1414	50% of the minimum performance 500 cycles Tested with VELCRO® Brand ALFATEX® Loop Polyester
	Tensile Strength EN-ISO 13934-1	Minimum: 210 N/cm Average: 300 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 Polyester has been designed to be used with VELCRO® Brand ALFATEX® Loop Polyester and the VELCRO® Brand ALFATEX® adhesives range.

SPECIAL CHARACTERISTICS*

Fastening system

VELCRO® Brand ALFATEX® Hook Polyester



Shrinkage

EN-ISO-6330/EN 12243

Maximum 2% after 1 wash at 60°C



OEKO-TEX®

STANDARD 100

OEKO-TEX®
CONFIDENCE IN TEXTILES
STANDARD 100
2010AN1511 AITEX

Tested for harmful substances.
www.oeko-tex.com/standard100



ADDITIONAL PERFORMANCE CHARACTERISTICS



Outdoor use

Since the product is made with Polyester, which has a good resistance to UV-light, **VELCRO® Brand ALFATEX® Hook 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® Hook 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® Hook 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

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

**Biocompatibility**

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

**Electrostatic discharge**

VELCRO® Brand ALFATEX® Hook 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.

**Seam strength**

VELCRO® Brand ALFATEX® Hook 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.

SUGGESTED APPLICATIONS

VELCRO® Brand ALFATEX® Hook 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.

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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