

VELCRO® Brand ALFATEX®
Loop Elastic Heavy

Technical Data Sheet
October 2021

PRODUCT DESCRIPTION



VELCRO® Brand ALFATEX® Loop Elastic Heavy is a stretchy textile knit suitable for applications where high elasticity is required. It is medium profile Polyamide – synthetic rubber loop tape, that has high cycle life when paired with VELCRO® Brand ALFATEX® Hook Elastic Woven and VELCRO® Brand ALFATEX® Hook.

VELCRO® Brand ALFATEX® Loop Elastic Heavy is designed for everyday applications such as sport and training shoes, furniture covers, orthopaedics braces and appliances and many more.

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

PRODUCT CONSTRUCTION

Fastening system	VELCRO® Brand ALFATEX® Loop Elastic Heavy
Construction	Knitted Fabric
Composition	Polyester, Polyamide and Synthetic rubber Polyurethane coating (±20%)
Thickness	3.0 - 4.0 mm
Weight	780 g/m ² ± 80g
Widths available + Variations*	20, 25 ± 1 mm 30, 38 ± 1.5 mm 50 ± 2.0 mm
Colour available	Black, white, sand

* Other widths capabilities upon request

** STD ALFATEX colour chart available upon request and MOQ acceptance.

PERFORMANCE CHARACTERISTICS*



Fastening system	VELCRO® Brand ALFATEX® Loop Elastic Heavy
Peel EN-12242	Minimum: 0.6 N/cm Average: 1.6 N/cm Tested with VELCRO® Brand ALFATEX® Hook
Shear EN-13780	Minimum: 2.5 N/cm ² Average: 4.5 N/cm ² Tested with VELCRO® Brand ALFATEX® Hook
Cycle Life EN-1414	High (2,000 to 5,0000 cycles) Tested with VELCRO® Brand ALFATEX® Hook
Tensile Strength EN-ISO 13934-1	Minimum: 100 N/cm Average: 167 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 Elastic Heavy has been designed to be used with VELCRO® Brand ALFATEX® Hook Elastic Woven and VELCRO® Brand ALFATEX® Hook.

SPECIAL CHARACTERISTICS*

Fastening system

VELCRO® Brand ALFATEX® Loop Elastic Heavy



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**Stretch by 50N
(lengthwise)**

20–25mm: Minimum 140% / Average: 173%
 30–38mm: Minimum 120% / Average: 153%
 50mm: Minimum 100% / Average: 125%

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® Loop Elastic Heavy** 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® Loop Elastic Heavy 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® Loop Elastic Heavy** 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

No relevant information available.

**Biocompatibility**

VELCRO® Brand ALFATEX® Loop Elastic Heavy has not been tested for biocompatibility.

**Electrostatic discharge**

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



FOOTWEAR & APPAREL: Sport and training shoes.



INDUSTRIAL: sport garments and accessories, 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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