

26 rue du chemin vert 78610 Le Perray en Yvelines Tél. : 01 34 84 21 93

Mail: contact@by-pixcl.com



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VELCRO® Brand

High Technology Hook 42A

Technical Data Sheet May 2022

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PRODUCT DESCRIPTION



The VELCRO® Brand High Technology Hook 42A is a lightweight, flexible and soft, non-abrasive fastener, perfect for applications close to the skin that require a durable, high-performance closure.

This polyamide low profile "T" shape hook is laminated with a polyester scrim. It is called the VELCRO® Brand SLEEK & THIN™ fastener when combined with the VELCRO® Brand Velour 3894.

The VELCRO® Brand SLEEK & THIN™ fastener is designed for every day applications in footwear & apparel, military, orthopaedics and especially those that are close to the skin.

Available in multiple widths and compatible with different sewing application methods, perfect for light weight fabrics.

PRODUCT CONSTRUCTION

Fastening system	VELCRO® Brand High Technology Hook 42A
Construction	Extruded Hook on Loop fabric
Composition	Polyamide 12 / Polyester
Thickness	0.72 - 0.82mm
Weight	290 g/m² ± 12%
Widths available	Up to 160mm
+ Variations*	Nominal ± 1.5mm
Colour available	Black, white

* Other widths capabilities upon request

PERFORMANCE CHARACTERISTICS*

S*	Fastening system	VELCRO® Brand High Technology Hook 42A
*	Peel EN-12242	Minimum: 0.20 N/cm Average: 0.80 N/cm Tested with VELCRO® Brand Velour 3894
*	Shear EN-13780	Minimum: 12.0 N/cm ² Average: 25.0 N/cm ² Tested with VELCRO® Brand Velour 3894
•	Tensile Strength EN-ISO 13934-1	Minimum: 60 N/cm Average: 100 N/cm
	Cycle Life EN-1414	50% of the minimum performance 10,000 cycles Tested with VELCRO® Brand Velour 3894

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

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PRODUCT COMBINATIONS

The VELCRO® Brand High Technology Hook 42A has been designed to be used with VELCRO® Brand Velour 3894.

VELCEOR Prond High Toohnology Hook 424

SPECIAL CHARACTERISTICS

	rastening system	VELCKO® Brand High Technology Hook 42A
X	Shrinkage	Maximum 2% after 3 washes at 60°C
	EN-ISO-6330/EN 12243	Maximum 3% after 3 washes at 90°C
	OEKO-TEX® STANDARD 100	Under evaluation

ADDITIONAL PERFORMANCE CHARACTERISTICS



Outdoor use

Since the product is made with polyamide, which has a known tendency to degrade in UV light, the **VELCRO®** Brand High Technology Hook 42A 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

The VELCRO® Brand High Technology Hook 42A does not have flameretardant 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. The VELCRO® Brand High Technology Hook 42A 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

The VELCRO® Brand High Technology Hook 42A has not been tested for biocompatibility.

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Electrostatic discharge

The VELCRO® Brand High Technology Hook 42A 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

The VELCRO® Brand High Technology Hook 42A 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

The VELCRO® Brand High Technology Hook 42A can be used in a wide variety of applications such as:



MEDICAL:

Orthopaedics Braces, Gowns.



FOOTWEAR & APPAREL:

Outdoor and sports apparel, footwear, bags, backpacks & accessories, workwear, fashion, infant & children's wear.



MILITARY & GOVERNMENT:

Military uniforms and workwear, bags, backpacks & accessories.

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

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	Given the diversity of our products, we recommend that our customers verify that the product satisfies the requirements of their application. The customer is responsible for the application and use of the product.

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