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VELCRO[®] Brand High Technology Hook 42A

Technical Data Sheet May 2022



PRODUCT CONSTRUCTION

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.

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			

VELCRO[®] Brand High Technology Hook 42A

* Other widths capabilities upon request

PERFORMANCE CHARACTERISTICS*

Hook 42A

Peel	Minimum: 0.20 N/cm
EN-12242	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	Minimum: 60 N/cm
EN-ISO 13934-1	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.

Document Name: VELCRO® Brand High Technology Document #: TDS_V

6

Document #: TDS_V199 Revision #: 03 Effective Date: May, 2022

Fastening system

Page #: 1 of 4



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PRODUCT COMBINATIONS		The VELCRO [®] Brand High Technology Hook 42A has been designed to be used with VELCRO [®] Brand Velour 3894.	
SPECIAL CHARACTERISTICS		Fastening system	VELCRO [®] Brand High Technology Hook 42
		Shrinkage	Maximum 2% after 3 washes at 60°C
	Ă	EN-ISO-6330/EN 12243	Maximum 3% after 3 washes at 90°C
		OEKO-TEX® STANDARD 100	Under evaluation
ADDITIONAL PERFORMANCE CHARACTERISTICS	degrade in UV light, the		e with polyamide, which has a known tendency f E LCRO[®] Brand High Technology Hook 42A is n rolonged exposure to UV light.
		Resistance to solvents	
		solvents or dry cleaning (e. to the most common solver its resistance to fluids use	ese fastening systems is resistant to cleaning wi .g. tetrachloroethylene) and to accidental exposur nts, but it is not resistant to prolonged exposure ar ed for transport, such as gasoline, motor oil ar of been tested. We recommend testing the produ
		Fire resistance	
	1		gh Technology Hook 42A does not have flame neir use in applications that require limited flame nended.
		Water/Moisture resistanc	e
	(•)	and to accidental exposur fluids used in transport, su cause degradation, partice temperatures. The product The VELCRO [®] Brand Hig	system is resistant to cleaning with some solvent e to the most common solvents; however, certai ch as gasoline, motor oil or transmission fluids ca ularly over long periods of time and at elevate t should be tested in use for a specific application h Technology Hook 42A can lose its properties water, and thus uses in water conditions is no
		Sterilisation	
			been tested for physical sterilisation (autoclave or chemical sterilisation (ethylene oxide, hydroge
		Colour fastness	
	\checkmark	No relevant information av	ailable.
	*	Biocompatibility The VELCRO [®] Brand Hig biocompatibility.	h Technology Hook 42A has not been tested f

Document Name: VELCRO® Brand High Technology Hook 42A

TDS_V199 Document #: 03 May, 2022 Revision #: Effective Date:

Page #: 2 of 4

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Page #: 3 of 4

		Electrostatio dispharee
		Electrostatic discharge The VELCRO [®] Brand High Technology Hook 42A has not been tested for electrostatic discharge after opening and closing the fastener. These product 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 severa substrates by sewing. A square stitch should be used when possible, but a common stitches also offer adequate strength. The choice of thread wi depend on the application and substrate, but it should offer similar strength t stitching.
SUGGESTED APPLICATIONS		The VELCRO [®] Brand High Technology Hook 42A can be used in a wid variety of applications such as:
		MEDICAL:
	ť	Orthopaedics Braces, Gowns.
	Â	FOOTWEAR & APPAREL:
		Outdoor and sports apparel, footwear, bags, backpacks & accessories workwear, fashion, infant & children's wear.
	1	MILITARY & GOVERNMENT:
	Ľ	Military uniforms and workwear, bags, backpacks & accessories.
		We recommend testing the product before use since the conditions specific t each application may cause differences in performance.

TDS_V199

May, 2022

03

Document #: Revision #:

Effective Date:

VELCRO[®] Brand High Technology Hook 42A

Document Name:



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is responsible for the application and use of the product.

Document Name: VELCRO[®] Brand High Technology Hook 42A Document #: 7 Revision #: 7 Effective Date: 1

ent #: TDS_V199 ion #: 03 Date: May, 2022

Page #: 4 of 4