

VEL-LOC® Standard Hook 085

Technical Data Sheet

August 2022

PRODUCT DESCRIPTION



The **VELCRO® Brand VEL-LOC® Standard Hook 085** is a resistant & durable textile mushroom hook, suitable for those applications where high engagement and shear performance are important in demanding environments. It is a woven polypropylene mushroom hook and polyester base, that has low cycle life when paired with VELCRO® Brand Velour 3165.

The **VELCRO® Brand VEL-LOC® Standard Hook 085** is used in several sectors, from automotive, industrial to construction, and has a wide range of applications due to its aggressive fastening connections.






Available in a wide range of colours, multiple widths, converted items and compatible with many application methods such as sewing, welding and VELCRO® Brand adhesives.

PRODUCT CONSTRUCTION

Fastening system	VELCRO® Brand VEL-LOC® Standard Hook 085
Construction	Woven fabric
Composition	Polyester, polypropylene, synthetic coating
Thickness	0.90 - 1.45mm
Weight	275g/m ² ± 10%
Widths available + Variations*	Slitted: Nominal ± 1.0mm With Selvedges: 107 and 125 ± 2.5mm 159± 3.0mm 188± 5.0mm
Colour available	Check VELCRO® Brand VEL-LOC® Colour Chart

* Other widths capabilities upon request

PERFORMANCE CHARACTERISTICS*

	Fastening system	VELCRO® Brand VEL-LOC® Standard Hook 085
	Peel EN-12242	Minimum: 0.7 N/cm Average: 2.0 N/cm Tested with VELCRO® Brand Velour 3165
	Shear EN-13780	Minimum: 15 N/cm ² Average: 20 N/cm ² Tested with VELCRO® Brand Velour 3165
	Tension NF-G91-103	Minimum: 2.8 N/cm ² Average: 5.0 N/cm ² Tested with VELCRO® Brand Velour 3165
	Cycle Life EN-1414	50% of the minimum performance 200 cycles Tested with VELCRO® Brand Velour 3165
	Tensile Strength EN-ISO 13934-1	Minimum: 220 N/cm Average: 270 N/cm

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

PRODUCT COMBINATIONS

The **VELCRO® Brand VEL-LOC® Standard Hook 085** has been designed to be used with VELCRO® Brand knitted or woven loop tapes and the VELCRO® Brand adhesives range.

SPECIAL CHARACTERISTICS*

Fastening system	VELCRO® Brand VEL-LOC® Standard Hook 085
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Shrinkage
EN-ISO-6330/EN 12243

Maximum 3% after 3 washes at 60°C



Colour Tolerance
dE (CMC)

$\Delta E \leq 2.0$



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ADDITIONAL PERFORMANCE CHARACTERISTICS



Outdoor use

Polyester is a material that offers good resistance to UV rays, while polypropylene has a low resistance to UV rays. As a result, the **VELCRO® Brand VEL-LOC® Standard Hook 085** is not specifically designed for outdoor use.



Resistance to solvents

The polyester in this fastening system is resistant to cleaning with some solvents and to accidental exposure to common solvents, but any such exposure must not be prolonged (except for alkalines, which hydrolyse it).

The polypropylene in this fastening system is resistant to cleaning with some solvents and to accidental exposure to common solvents, except for halogenated solvents, which dissolve it.

Its resistance to fluids used in transport, such as gasoline, motor oil or transmission fluids, has not been tested. We recommend testing the product for its specific application.



Fire resistance

The **VELCRO® Brand VEL-LOC® Standard Hook 085** does not have flame-retardant properties, so their use in applications that require limited flame propagation is not recommended. For flame-retardant properties refer to the product VELCRO® Brand VEL-LOC® Standard Hook 084 FR.



Water/Moisture resistance

The polyester and polypropylene self-fastening system absorbs small amounts of water. As a result, its performance should be stable when the product is exposed to water or a high relative humidity (>80% RH) over long periods of time.



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

The **VELCRO® Brand VEL-LOC® Standard Hook 085** guarantees the following colour fastness:

Colour fastness to washing with soap (ISO 105 C-10): Min. 4

Colour fastness to dry-cleaning (ISO 105 D-01): Min. 4

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 light (ISO 105 B-02) - Min. 5

Colour fastness to perspiration (ISO 105 E-04) - Min. 4



Biocompatibility

Customers have full responsibility to determine the suitability for safety and biocompatibility assessments of the **VELCRO® Brand VEL-LOC® Standard Hook 085**.

Summaries of biocompatibility testing results (ISO 10993-5 Cytotoxicity), where available upon request. Customers should perform their own assessments on final products in compliance with applicable regulatory requirements.



Electrostatic discharge

The **VELCRO® Brand VEL-LOC® Standard Hook 085** 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 VEL-LOC® Standard Hook 085** can be applied to several substrates by sewing, ultrasonic welding and adhesives. Users must test each method to see which best suits their application.

Sewing: The **VELCRO® Brand VEL-LOC® Standard Hook 085** can be sewn using similar methods for other polyesters. 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 VEL-LOC® Standard Hook 085** can be used in a wide variety of applications such as:



TRANSPORTATION

Automotive interiors and transportation seats.



INDUSTRIAL & CONSTRUCTION

Abrasives, furniture, panel fixation, solar panels, carpet fixation.

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



COUNTRY OF ORIGIN

SPAIN

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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