



PRESSURE SENSITIVE PS-18

Base material : Water based acrylic polymer
 Colour : Colourless
 Shelf Life : Maximum 5 Years, when stored in dark area, at temperature of 10°C to 30°C.
 Suggested uses : On most clean and smooth surfaces. (Except polypropylene and other non-polar material)

Adhesives Properties

Peel Strength 180°:

Curing time 20 minutes	Minimum 8 N/cm Average 20 N/cm	Test method : FINAT ; FTM 1
Curing time 24 hours	Minimum 10 N/cm Average 22 N/cm	Test method : FINAT ; FTM 1
Static Shear Strength:	≥ 3 days	Test method : FINAT ; FTM 8
Softening Point:	≥ 120°C	Test method : ASTM D-816

FINAT: Fédération Internationale des fabricants transformateurs d'Adhésifs et Thermocollants. ASTM: American Society for Testing and Materials.
 Tested on: Anodized aluminium plates under laboratory conditions. (23°C ± 2 and 60 ± 10 % R.H.)

Resistance properties

Oxidation	Excellent
Plastifying, oils	Excellent
High relative humidity	Poor
Polar solvents (M.E.K. etc.)	Poor
Non-polar solvents (gasoline, etc.)	Good
Migration	Good
High temperature	Good
Low temperature	Good
U.V. radiation	Excellent
Temperature Range	-20°C to +120°C (Depending on loading and Relative Humidity).

General Directions for Use

Minimum recommended bonding temperature: 10°C.
 Degrease the substrate with e.g. alcohol or spirit. (The substrate must be free of grease, moisture, dust, silicones, etc.).
 Remove the protective paper and press the tape firmly into contact with the substrate, with special attention to the edges.
 Preferably, allow substrate and pressure sensitive tape to stand for 24 hours after applying load.

* Internal norm of VESA

The information included in this Technical Sheet is based on reliable test and trials, coverage value as a reference only, not a nominal specification. Given the diversity of uses of our products we advice our customers to assure themselves that the product meets the requirements of their application. The responsibility for the application and use of the product remains with the customer.

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ANEXO: IDT – 605-B

FTP 502 Versión 5

VELCRO® Brand
Hook 088

Technical Data Sheet
June 2022

PRODUCT DESCRIPTION



The VELCRO® Brand Hook 088 is a European soft & durable textile hook suitable for the most demanding applications. It is a woven medium profile polyamide hook tape guaranteeing a high cycle life that can be opened thousands of times without losing its strength when paired with the VELCRO® Brand Loop 001.

The VELCRO® Brand Hook 088 is suitable for a wide range of applications in various demanding industries such as medical, automotive & transportation, military, packaging, footwear & apparel and many others.






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

PRODUCT CONSTRUCTION

Fastening system	VELCRO® Brand Hook 088
Construction	Woven fabric
Composition	Polyamide, synthetic coating
Thickness	1.70 - 2.05 mm
Weight	300 g/m ² ± 10%
Widths available + Variations ¹	16, 20, 25, 30, 38 ± 1 mm 50 ± 1.5 mm 100, 107, 150, 160 ± 2 mm
Colour available	Check VELCRO® Brand colour chart

¹ Other widths capabilities upon request

PERFORMANCE CHARACTERISTICS ²

	Fastening system	VELCRO® Brand Hook 088
	Peel EN-12242	Minimum: 1.3 N/cm Average: 2.0 N/cm Tested with VELCRO® Brand Loop 001
	Shear EN-13780	Minimum: 7.3 N/cm ² Average: 10.3 N/cm ² Tested with VELCRO® Brand Loop 001
	Tension NF-G91-103	Minimum: 2.5 N/cm ² Average: 5.5 N/cm ² Tested with VELCRO® Brand Loop 001
	Cycle Life EN-1414	50% of the minimum performance, 10,000 cycles Tested with VELCRO® Brand Loop 001
	Tensile Strength EN-ISO 13934-1	Minimum: 210 N/cm Average: 300 N/cm

² 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 Hook 088** has been designed to be used with the **VELCRO® Brand Loop 001** and the **VELCRO® Brand adhesive range**.

SPECIAL CHARACTERISTICS

Fastening system

VELCRO® Brand Hook 088



Shrinkage
EN-ISO-6330/EN 12243

Maximum 4% after 3 washes at 60°C



Colour Tolerance
dE (CMC)

$\Delta E \leq 2.0$



OEKO-TEX®
STANDARD 100 Class I



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 Hook 088** is not recommended for direct, prolonged exposure to UV light.



Resistance to solvents

The polyamide 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 strong acids, which hydrolyse 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 Hook 088** 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 Hook 088 FR**.



Water/Moisture resistance

The polyamide in this fastening system degrades its mechanical properties when exposed to water/high humidity (>80% RH) for long periods of time. These properties are typically recovered when the product dries.



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 Hook 088** 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 perspiration (ISO 105 E-04): Min. 4
Colour fastness to artificial light (ISO 105-B-02): Min. 5 (dark colours); min. 4 (white and light colours); min 3 (fluor colours)

**Biocompatibility**

Customers have full responsibility to determine the suitability for safety and biocompatibility assessments of the **VELCRO® Brand Hook 088**.

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 Hook 088** 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 Hook 088** 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.

SUGGESTED APPLICATIONS

The **VELCRO® Brand Hook 088** can be used in a wide variety of applications such as:

**TRANSPORTATION:**

Automotive interior & accessories, carpet fixation, seat trim covers, aircraft seating.

**MEDICAL:**

Orthopaedics braces, gowns.

**PACKAGING:**

Returnable packaging applications.

**FOOTWEAR & APPAREL:**

Military uniforms, fashion & sport garments, workwear, shoes & ski boots.

**INDUSTRIAL & CONSTRUCTION:**

Panel fixation, signage cable management, furnishing & curtains, tents, sports equipment.



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



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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.

LIMITED WARRANTY

Velcro Companies^(*) warrants that all of its products will substantially comply with its written specifications at the time of shipment. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED. The product user is responsible for determining whether the product is fit and suitable for the intended application. If the product does not meet specifications as warranted, we will, at our option, repair or replace the product, or credit or refund the purchase price. The foregoing constitutes the user's sole remedy and our sole obligation hereunder.

(*) Velcro Companies includes all the partner companies involved in the development, manufacture or sale of the products.

LIMITATION OF LIABILITY

To the maximum extent permitted under applicable law, our liability for any losses or damages relating to use of the product shall not exceed the purchase price for such product, regardless of whether such losses or damages are direct, indirect, special, incidental or consequential, and regardless of the legal theory asserted, including, but not limited to, warranty, contract, negligence or strict liability.

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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