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VELCRO® Brand

ONE-WRAP® 229 fastener

Technical Data Sheet
December 2024

PRODUCT DESCRIPTION



The **VELCRO® Brand ONE-WRAP® 229 fastener** is a sustainable, easy to reposition, smart bundling solution, glue-free self-engaging back-to-back fastener, widely used for cable management and wire harnessing low smoke and zero halogen applications in different markets.

This low profile polypropylene hook with polyamide backing was designed to be a strong performance self-engaging fastener.

The **VELCRO® Brand ONE-WRAP® 229 fastener** is used in several markets, from industrial to construction, footwear & apparel, automotive accessories, medical garments, and many more.

Available in a wide range of colours to assist different applications where colour coding is important, multiple widths, converted items and compatible with many application methods such as sewing and welding.

PRODUCT CONSTRUCTION

Fastening system	VELCRO® Brand ONE-WRAP® 229 fastener
Construction	Extruded hook on knitted fabric
Composition	Polypropylene (extruded hook) Polyamide (knitted fabric)
Thickness	1.05 - 1.65mm
Weight	550 g/m² ± 11%
Width available + Variations[1]	<320mm: Nominal ± 1.5mm 320mm: Nominal ± 1%
Colour available	Check VELCRO® Brand OW colour chart

[1] Other lengths capabilities upon request

PERFORMANCE CHARACTERISTICS[2]

Fastening system	VELCRO® Brand ONE-WRAP® 229 fastener
Peel EN-12242	Minimum: 0.4 N/cm Average: 2.0 N/cm Tested with VELCRO® Brand ONE-WRAP® 229 fastener
Shear EN-13780	Minimum: 7 N/cm² Average: 40 N/cm² Tested with VELCRO® Brand ONE-WRAP® 229 fastener
Cycle Life EN-1414	50% of the minimum performance 100 cycles Tested with VELCRO® Brand ONE-WRAP® 229 fastener
Tensile Strength EN-ISO 13934-1	Minimum: 120 N/cm Average: 180 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

VELCRO® Brand ONE-WRAP® 229 fastener has been designed to be used as a self-engaging tape.

SPECIAL CHARACTERISTICS

Fastening system	VELCRO® Brand ONE-WRAP® 229 fastener
Fire resistance LOW SMOKE	Comply with ICEA-T-33-655 for optical density requirements.
Fire resistance ZERO HALOGEN	Comply with the standard EN50306-1 Point 3.3 requirements.
OEKO-TEX® STANDARD 100 Class I	OEKO TEX® STANDARD 100 2019OK0343 AITEX

ADDITIONAL PERFORMANCE CHARACTERISTICS

Outdoor use

Since the product is made with polypropylene and polyamide, which both has a known tendency to degrade in UV light, the **VELCRO® Brand ONE-WRAP® 229 fastener** are not recommended for direct, prolonged exposure to UV light.

Resistance to solvents

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

Their 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 ONE-WRAP® 229 fastener** can be ignited. Please, see information related flammability properties in 'Special Characteristics'.

Water/Moisture resistance

Since the product is made with polyamide, 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

No relevant information available.

Biocompatibility

The **VELCRO® Brand ONE-WRAP® 229 fastener** has not been tested for biocompatibility.

Electrostatic discharge

The **VELCRO® Brand ONE-WRAP® 229 fastener** 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

No relevant information available.

SUGGESTED APPLICATIONS

The **VELCRO® Brand ONE-WRAP® 229 fastener** can be used in a wide variety of applications such as:



TRANSPORTATION:

Automotive interior & accessories, fixing toolboxes or safety kits in the trunk.





INDUSTRIAL & CONSTRUCTION:

Data Centres, Electrical, HVAC, Electronics, Original Equipment Manufacturer (OEM) & Maintenance Repair & Operations (MRO) and Consumer applications to bundle cables & cords where reusable, easy to reposition, safe and adjustable bundling solutions are important.

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.
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.

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