

VELCRO® Brand
ONE-WRAP® Fastener

Technical Data Sheet
March, 2020

PRODUCT DESCRIPTION



VELCRO® Brand ONE-WRAP® Fastener is a patented glue-free self-engaging back-to-back fastener ideal for cable & cord management. Perfectly suitable for applications requiring a reusable, adjustable, easy to reposition and safe fastener that is gentle on fragile wires preventing damage to cables, but strong enough to maintain large cable bundles in a pathway. Available in a wide range of colours to assist different applications where colour coding is important.

VELCRO® Brand ONE-WRAP® Fastener has the special characteristics to be a Low Smoke and Zero Halogen fastener, suitable to use in plenum spaces and secure environments.

PRODUCT CONSTRUCTION

Fastening system	VELCRO® Brand ONE-WRAP® Fastener
Construction	Extruded hook on knitted fabric
Composition	Polypropylene / Polyamide
Thickness	Average 1.35mm
Weight	Average 535 g/m ²
Widths available	10, 13, 16, 20, 25, 30, 50mm
Colour available	Black

* The above should be considered typical values and is intended to be used as a reference only. This information should not be used for specification purposes. Suitable performance for a specific intended application should be evaluated by the user.

PERFORMANCE CHARACTERISTICS*



Fastening system	VELCRO® Brand ONE-WRAP® Fastener
Peel	Average 2.0 N/cm
Shear	Average 40.4 N/cm ²


Cycle Life

50% loss 100 cycles

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PRODUCT COMBINATIONS

VELCRO® Brand ONE-WRAP® Fastener is a self-engaging tape, but also can be used with our wide range of VELCRO® Brand Hook & Loop products.

SPECIAL CHARACTERISTICS*
Fastening system
VELCRO® Brand ONE-WRAP® Fastener

FMVSS 302
Burn rates (mm/min):

Burning (B) – Below 100mm/min


LOW SMOKE

 Comply with **ICEA-T-33-655** for optical density requirements.

ZERO HALOGEN

 Comply with the standard **EN50306-1 Point 3.3** requirements.

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ADDITIONAL PERFORMANCE CHARACTERISTICS

Outdoor use

Since the product is partially made with Polyamide, which has a known tendency to degrade in UV light, **VELCRO® Brand ONE-WRAP® Fasteners** are not recommended for direct, prolonged exposure to UV light.


Resistance to solvents

Polypropylene and 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.


Fire resistance

VELCRO® Brand ONE-WRAP® Fastener can be ignited. Please, see information related flammability properties in 'Special Characteristics'.


Water/Moisture resistance

The mechanical properties of polyamide hook and loop fasteners degrade 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.


Product Safety and Environment

VELCRO® Brand ONE-WRAP® Fasteners are OEKO-TEX® STANDARD

100 certified.



Biocompatibility

VELCRO® Brand ONE-WRAP® Fastener has not been tested for biocompatibility.



Electrostatic discharge

VELCRO® Brand ONE-WRAP® 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

Below is a brief description of the typical applications in which the **VELCRO® Brand ONE-WRAP® Fasteners** may be used.

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

CONSTRUCTION & INDUSTRIAL



Cable management

VELCRO® Brand ONE-WRAP® Fasteners can be used for applications in 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.



TRANSPORTATION



Cable management and accessories

VELCRO® Brand ONE-WRAP® Fasteners can be used for applications in Transportation industry where reusable, easy to reposition, safe and adjustable bundling solutions are important such as in cable management or fixing toolboxes or safety kits in the trunk.

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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