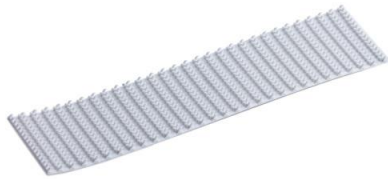


VELCRO® Brand
High Technology Hook 820

Technical Data Sheet
January 2024

PRODUCT DESCRIPTION



The **VELCRO® Brand High Technology Hook 820** is a strong and durable fastener, perfect for applications requiring high performance, resistance to high temperatures and high cycle life.

It is a high profile hook that is suitable for a wide range of applications in various demanding industries such as medical, footwear and apparel, packaging and many others.




Available in multiple widths, as well as in pancake rolls, and compatible with many application methods such as welding and VELCRO® Brand adhesives.

PRODUCT CONSTRUCTION

Fastening system	VELCRO® Brand High Technology Hook 820
Construction	Extruded hook
Composition	Polyamide 6.6
Thickness	1.52mm ± 0.03
Weight	490g/m ² ± 50
Widths available + Variations¹	Slitted tape ± 1.5mm Extruded tape ± 1.0%
Colour available	Black, white

¹ Other widths capabilities upon request

PERFORMANCE CHARACTERISTICS²

Fastening system	VELCRO® Brand High Technology Hook 820
 Peel EN-12242	Minimum: 2.40 N/cm Average: 5.20 N/cm Tested with VELCRO® Brand Loop 001
 Shear EN-13780	Minimum: 18 N/cm ² Average: 35 N/cm ² Tested with VELCRO® Brand Loop 001
 Tensile Strength (Crosswise) EN-ISO 13934-1	Minimum: 130 N/cm Average: 170 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 High Technology Hook 820** has been designed to be fastened with several product profiles such as high and medium profile woven, knitted and nonwoven loops. It can also be offered with some of the adhesives options from the VELCRO® Brand adhesive range.

SPECIAL CHARACTERISTICS
Fastening system
VELCRO® Brand High Technology Hook 820

**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 High Technology Hook 820** 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 High Technology Hook 820** does not have flame-retardant treatment, so its use is not recommended for applications that require limited flame propagation.


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

No relevant information available.


Biocompatibility

The **VELCRO® Brand High Technology Hook 820** has not been tested for biocompatibility.


Electrostatic discharge

The **VELCRO® Brand High Technology Hook 820** 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 High Technology Hook 820** is not recommended for sew on applications. It is recommended to other application methods such as ultrasonic welding or adhesives.

SUGGESTED APPLICATIONS

The **VELCRO[®] Brand High Technology Hook 820** can be used in a wide variety of applications such as:

**INDUSTRIAL:**

Furnishing, sports equipment, modular systems.

**MEDICAL:**

Orthopaedic braces.

**PACKAGING:**

Cardboard trays and other cardboard packaging.

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.

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.

VELCRO® and other marks are registered. Used with permission. © 2024