

HOOK FASTENER

DESCRIPTION

European-made woven hook fastener, soft yet durable, designed for demanding applications. Manufactured from woven polyamide, it provides excellent durability and maintains reliable fastening performance through thousands of opening and closing cycles when used with the corresponding loop fastener. The Hook Fastener is designed for use with the Loop Fastener and the full range of compatible adhesives.

APPLICATION

Suitable for a wide range of applications across the medical, automotive, transport, military, packaging, footwear and apparel industries, as well as many other sectors. Available in a wide range of colours and widths, and compatible with various application methods, including sewing, welding and adhesive bonding.

TECHNICAL SPECIFICATIONS

PARAMETER

Construction
Material
Thickness
Weight
Available Widths on request
Available Colours
* Values are indicative

VALUE

Woven Fabrics
Polyamide with synthetic coating
1.70 - 2.05 mm
300 g/m² ± 10%
16,20,25,30,38 ± 1 mm, 50 ± 1.5 mm, 100, 107,150,160 ± 2 mm
Black, White, Transparent

PERFORMANCE SPECIFICATIONS

PARAMETER

Peel Strength
EN 12242
Shear Strength
EN 13780
Tensile Strength
NF G91-103
Cycle Life
EN 1414
Tensile Strength
EN ISO 13934-1
Fabric Shrinkage
EN ISO 6330 / EN 12243
Colour Tolerance (ΔE CMC)

VALUE

Minimum 1.3 N/cm
Average 2.0 N/cm
Minimum 7.3 N/cm²
Average 10.3 N/cm²
Minimum 2.5 N/cm²
Average 5.5 N/cm²
50% the minimum performance after
10,000 cycles
Minimum 210 N/cm
Average 240 N/cm
Maximum 4%
after 3 washing cycles at 60°
ΔE ≤ 2.0

—
OEKO-TEX® Standard 100, Class I



Discover our FSC® certified products

Only the products that are identified as such on this document are FSC® certified

ADDITIONAL PERFORMANCE CHARACTERISTICS

Outdoor Use

As this product is manufactured from polyamide, which is prone to degradation when exposed to ultraviolet (UV) light, the Hook Fastener is not recommended for prolonged direct exposure to UV radiation.

Solvent Resistance

The polyamide used in this fastening system is resistant to cleaning with certain solvents and to incidental exposure to common solvents. However, prolonged exposure is not recommended (except for strong acids, which cause hydrolysis). Resistance to fluids commonly used in the transport industry, such as petrol, engine oil and transmission fluids, has not been tested. We recommend testing the product under the intended application conditions.

Fire Resistance

The Hook Fastener does not possess flame-retardant properties and is therefore not recommended for applications requiring limited flame spread.

Water and Moisture Resistance

The polyamide used in this fastening system may experience a reduction in its mechanical properties following prolonged exposure to water or high humidity. In general, these properties are restored once the product has dried.

Sterilisation

These products have not been tested for physical sterilisation (autoclaving, steam, gamma irradiation, etc.) or chemical sterilisation (ethylene oxide or hydrogen peroxide).

Colour Fastness

The Hook Fastener provides the following colour fastness performance:

Colour fastness to washing (ISO 105 C-10): Minimum 4

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

Colour fastness to rubbing (ISO 105 X-12): Minimum 4

Colour fastness to water (ISO 105 E-01): Minimum 4

Colour fastness to seawater (ISO 105 E-02): Minimum 4

Colour fastness to perspiration (ISO 105 E-04): Minimum 4

Colour fastness to artificial light (ISO 105 B-02):

Minimum 5 (dark colours)

Minimum 4 (light colours and white)

Minimum 3 (fluorescent colours)

Biocompatibility

Customers are solely responsible for assessing the safety and biocompatibility of the Hook Fastener for their intended application. Summaries of biocompatibility test results (ISO 10993-5 Cytotoxicity) are available upon request. Customers must perform their own evaluations on the finished product in accordance with the applicable regulatory requirements.

Electrostatic Discharge (ESD)

The Hook Fastener has not been tested for electrostatic discharge following repeated opening and closing of the fastening system. Products intended for ESD-sensitive applications should be evaluated under their actual operating conditions.

Sewing Performance

The Hook Fastener can be attached to a wide range of substrates by sewing. Where possible, a box stitch is recommended; however, all common stitching methods provide adequate fastening strength. The choice of thread should be based on the specific application and substrate.



Discover our FSC® certified products

Only the products that are identified as such on this document are FSC® certified

APPLICATIONS

Transport

Automotive interiors and accessories, carpet fastening, seat trim covers and aircraft seating.

Medical

Orthopaedic supports and medical gowns.

Packaging

Reusable packaging applications.

Footwear & Apparel

Military uniforms, fashion and sportswear, workwear, ski boots and footwear.

Industrial & Construction

Panel fastening, cable management, signage, furniture and upholstery, curtains, and sports equipment.

* Products should be tested before use, as performance may vary depending on the specific application.



Discover our FSC® certified products

Only the products that are identified as such on this document are FSC® certified

ADHESIVE SAFETY DATA SHEET

Base material: Rubber resin

Colour: amber

Shelf life: Up to 3 years when stored in a dry, dark place at temperatures between 1 °C and 30 °C.

Recommended use: Generally suitable for most clean, smooth surfaces (except certain types of plasticised materials).

ADHESIVE PROPERTIES

180° PEEL ADHESION

After 20 minutes

-

After 24 hours

-

Static Shear Strength

-

Softening Temperature

* Values are indicative

VALUE

Minimum 8 N/cm

Average 15 N/cm

Minimum 10 N/cm

Average 17 N/cm

≥ 7 days

- 90°C

TEST METHOD

FINAT: FTM 1

-

FINAT: FTM 1

-

FINAT: FTM 8

-

ASTM D-816

RESISTANCE PROPERTIES

CONDITION

Oxidation

Plasticisers and Oils

High Relative Humidity

Polar Solvents (Alcohols, Ketones etc.)

Non-Polar Solvents (Petrol, etc.)

Migration

High Temperatures

Low Temperatures

UV Radiation

Operating Temperature Range

* Values are indicative

PERFORMANCE

Poor

Poor

Poor

Poor

Good

Poor

Good

Good

Poor

-15 °C to +90 °C, depending on the applied load and the level of relative humidity

APPLICATION

Recommended application temperature: 20 °C to 30 °C.

Thoroughly clean and degrease the surface to which the adhesive will be applied using alcohol or a suitable solvent

The surface must be free from grease, moisture, dust, silicone and other contaminants.

Remove the release liner and apply firm pressure to ensure full contact with the surface.

Allow the adhesive to cure for at least 24 hours before subjecting the bond to mechanical stress.



Discover our FSC® certified products

Only the products that are identified as such on this document are FSC® certified