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Registered Office: 20138 Milan - Via M.F Quintiliano, 2/4
Administrative Offices: 20138 Milan - Via Salomone, 43
T.+39(02)58.012.660 - 58.011.069 F.+39(02)50.633.14
Share Capital € 100.000 i.v. – REA MI 1252539
VAT No. 08837680159

www.cavalliniring.it - vendite@cavalliniring.it
Certified Email PEC: cavallinisrl@ticertifica.it

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VELCRO EASY COIN HOOK

DESCRIPTION

The Easy Coin Hook is a lightweight, low-profile, flexible and durable fastening system. Thanks to its low-profile design, it is ideal for applications requiring a discreet, reliable and adaptable fastening solution. It is suitable for a wide range of applications across various industries, including industrial, medical, transport, construction, packaging and other technical sectors. Available in a range of widths, including rolls, it is compatible with various attachment methods, including sewing, heat welding, radio frequency (RF) welding, ultrasonic welding and pressure-sensitive adhesive (PSA) lamination. Manufactured entirely from single-component polypropylene (PP), it is fully recyclable. It is designed to engage with a variety of low-profile woven and non-woven loop fasteners.

TECHNICAL SPECIFICATIONS

PARAMETER	VALUE
Construction	Extruded hook
Composition	Polypropylene
Thickness	0,50 mm ± 0,10
Weight	175 g/m² ± 20
Available Widths	Slit tape ± 1,5 mm, estruded tape ± 1,0%
Available Colours	Black, White, Natural

* Values are indicative

PERFORMANCE CHARACTERISTICS

PARAMETER	VALUE
Peel Strength EN-12242	Minimum: 0,60 N/cm Average: 2,20 N/cm
Shear Strength EN-13780	Minimum: 8,6 N/cm Average: 31 N/cm

*Values are indicative

ADDITIONAL PERFORMANCE CHARACTERISTICS

Uso esterno
As the product is manufactured from polypropylene, a material that is susceptible to degradation when exposed to ultraviolet (UV) radiation, it is not recommended for prolonged direct exposure to sunlight.

Resistenza ai solventi
Polypropylene is resistant to cleaning with certain solvents and to incidental exposure to most common solvents, with the exception of halogenated solvents, which may dissolve the material. Resistance to automotive fluids, including petrol, engine oil and transmission fluid, has not been tested. Performance should always be verified under the intended application conditions.

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Fire Resistance
This product is not flame-retardant and should not be used in applications where limited flame spread or flame resistance is required.

Water and Moisture Resistance
Polypropylene provides excellent resistance to water. The product is suitable for use in humid environments or where exposure to water is expected.

Sterilisation
This product has not been tested for physical sterilisation (autoclaving, steam, gamma irradiation, etc.) or chemical sterilisation (ethylene oxide, hydrogen peroxide, etc.).

Colour Fastness
No relevant information is available.

Biocompatibility
Customers are solely responsible for assessing the safety and biocompatibility of the product for its intended application. Summaries of ISO 10993-5 cytotoxicity test results are available upon request. Customers should perform their own evaluations on the finished product in accordance with the applicable regulatory requirements.

Electrostatic Discharge (ESD)
This product has not been tested for electrostatic discharge (ESD) 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
This product is not recommended for sewn applications. Ultrasonic welding or pressure-sensitive adhesives (PSA) are recommended instead. The suitability of each attachment method should be verified for the specific application.

Storage and Shelf Life
Store in a dry place, away from direct sunlight and sources of heat. Keep the product in its original packaging until ready for use.
Recommended storage temperature: 10 °C to 35 °C (50 °F to 95 °F)
Recommended relative humidity: 40% to 60%
Avoid exposure to extreme temperatures or humidity.
Shelf life: The product has no defined shelf life when stored under the recommended conditions.

APPLICATIONS
Industrial
Cardboard trays, gift and stationery packaging, and carpet fastening.

Medical
Disposable medical products and colostomy bags.

Transport
Headrest covers.

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VELCRO EASY COIN LOOP

DESCRIPTION

The Easy Coin Loop is a 165 g/m² knitted loop fabric designed for applications requiring a smooth surface and a limited cycle life across a wide range of industrial sectors. Manufactured from polyamide, it is intended for use with Easy Coin Hook fasteners, providing a lower cycle life than conventional hook-and-loop fastening systems.

Suitable for a wide range of applications in the medical, industrial, transport, packaging, footwear and apparel industries, as well as many other sectors. Available in black and white, in a variety of widths and converted formats, it is compatible with several attachment methods, including sewing, heat welding and pressure-sensitive adhesives (PSA).

TECHNICAL SPECIFICATIONS

PARAMETER	VALUE
Construction	Knitted fabric
Composition	Polyamide (PA)
Thickness	0,50-1,50 mm
Weight	165 g/m² ± 20%
Available Widths	< 50 mm: Nominal ± 1 mm, ≥ 50 mm: Nominal ± 1,5 mm, ≥ 100 mm: Nominal ± 2 mm
Available Colours	Black, White

* Values are indicatives

PERFORMANCE CHARACTERISTICS

PARAMETER	VALUE
Peel Strength EN-12242	Minimum: 0,3 N/cm Average: 0,8 N/cm
Shear Strength EN-13780	Minimum: 5,0 N/cm Average: 13,0 N/cm
Life cycle EN-1414	50% of the minimum performance after 100 cycles Minimum: 65 N/cm Average: 90 N/cm
Tensile Strength EN-ISO 13934-1	

* Values are indicatives

SPECIAL CHARACTERISTICS

PARAMETER	VALUE
Shrinkage EN-ISO 6330 / EN 12243	Longitudinal direction: maximum 6% after one wash at 40°C Transverse direction: maximum 6% after one wash at 40°C
Colour Tolerance (ΔE CMC)	ΔE ≤ 2,0

ADDITIONAL CHARACTERISTICS

Outdoor Use

As the product is manufactured from polyamide, which is susceptible to degradation when exposed to ultraviolet (UV) radiation, it is not recommended for prolonged direct exposure to sunlight..

Solvent Resistance

Polyamide is resistant to brief cleaning with certain common solvents but should not be exposed to them for prolonged periods. It is sensitive to strong acids, which may cause hydrolysis.

Resistance to automotive fluids, including petrol, engine oil and transmission fluid, has not been tested. Performance

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should always be verified under the intended application conditions.

Fire Resistance
This product is not flame-retardant and should not be used in applications where limited flame spread or flame resistance is required.

Water and Moisture Resistance
Polyamide may experience a reduction in its mechanical properties following prolonged exposure to water or high humidity (>80% RH). These properties are generally restored once the material has dried.

Sterilisation
This product has not been tested for physical sterilisation (autoclaving, steam, gamma irradiation, etc.) or chemical sterilisation (ethylene oxide, hydrogen peroxide, etc.).

Colour Fastness
The Easy Coin Loop 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 product for its intended application. Summaries of ISO 10993-5 Cytotoxicity test results are available upon request. Customers should perform their own evaluations on the finished product in accordance with the applicable regulatory requirements.

Electrostatic Discharge (ESD)
This product has not been tested for electrostatic discharge (ESD) 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 product 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.

APPLICATIONS

Footwear & Apparel
Delicate fashion garments and sportswear.

Industrial
Upholstery fabrics, coverings, carpet backing and abrasive products.

Packaging
Identification labels (ID labels).

Medical
Sensor straps, surgical gowns and disposable medical products.

Transport
Cable harnesses and vehicle covers.

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ADHESIVE SAFETY DATA SHEET

DESCRIPTION
The adhesive is a rubber-based pressure-sensitive adhesive (PSA) applied to Press-Lok® fastening systems. It is formulated to bond to a wide variety of substrates and provides rapid bonding with high initial tack. The adhesive reaches approximately 80% of its ultimate bond strength within 1 hour and full bond strength within 30 hours. The recommended service temperature range is −40 °C to +49 °C (−40 °F to +120 °F). It is intended for indoor applications.

TECHNICAL SPECIFICATIONS

PARAMETER	VALUE
Material	Rubber-nbased Hot Melt with Polyester film
Weight	302 g/m^2

* Values are indicative

PERFORMANCE CHARACTERISTCS

PARAMETER	VALUE
180° Peel Adhesion IMT-00054	Average: 14,31 PIW o 25,06 N/cm

* I valori sono da intendersi in maniera indicativa

SUBSTRATE COMPATIBILITY

PARAMETER	VALUE
Alluminium	Recommended
Stainless steel	Recommended
Copper	Recommended
Glass	Recommended
Nylon	Not Recommended
Polyestere	Good
Polyurethane	Not Recommended
ABS	Recommended
Polycarbonate	Recommended
PVC	Good
Acrylic	Recommended
PET	Good
Polystyrene	Recommended
PVA	Recommended
EVA	Recommended
Polyethylene	Recommended
Polypropylene	Recommended
PTFE	Recommended
PVDF	Recommended
Silicone	Recommended

ADDITIONAL PERFORMANCE CHARACTERISTICS

Outdoor Use
Not recommended for prolonged direct exposure to ultraviolet (UV) radiation, as the adhesive may degrade over time.

Solvent Resistance
The adhesive offers excellent chemical resistance. However, it has not been tested for resistance to automotive fluids, including petrol, engine oil and transmission fluid. Performance should be verified under the intended application conditions.

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Fire Resistance
This product is not flame-retardant and should not be used in applications where flame resistance is required.

Water and Moisture Resistance
Adhesive performance may be reduced following prolonged exposure to water or high humidity.

Biocompatibility
This product has not been tested for biocompatibility. Customers are responsible for assessing the safety and biocompatibility of the product for its intended application.

Storage and Shelf Life
Store in the original packaging in a dry environment at 15–24 °C (60–75 °F).
Shelf life: 24 months when stored under the recommended conditions.

APPLICATION GUIDELINES
Surface Preparation
Successful bonding begins with proper surface preparation. Surface preparation may involve several steps, including cleaning, abrasion, the application of pressure, the use of a primer, and maintaining suitable environmental conditions during application. Ensure that the working area is clean and free from dust and other contaminants. A minimum application temperature of approximately 15 °C (60 °F) is recommended.

Cleaning
For lightly or moderately contaminated surfaces, cleaning with an isopropyl alcohol (IPA) solution is recommended.
Use a clean, light-coloured, tear-resistant paper cloth. Wipe the surface in one direction only using either:
the one-cloth method, using a single cloth moistened with the cleaning solution; or
the two-cloth method, using one cloth moistened with the cleaning solution followed immediately by a dry cloth. This method is suitable where a faster cleaning process is required. Repeat the procedure until the cloth remains clean and free from contaminants.
For heavily contaminated surfaces, use a suitable solvent such as methyl ethyl ketone (MEK), heptane or acetone. As these solvents may leave residues, the surface should then be cleaned with an IPA solution.

Abrasion
When bonding to bare aluminium, surface abrasion is recommended.
Lubricants used during the aluminium rolling process may become embedded in the surface pores and adversely affect adhesion. These contaminants should be removed using suitable abrasive pads, ensuring sufficient abrasion without damaging the substrate.
Although particularly recommended for bare aluminium, abrasion is also an effective method of improving adhesion on many other substrates.
After abrasion, remove any remaining residue using an IPA solution, following the cleaning procedure described above.

Application Pressure
As this is a pressure-sensitive adhesive (PSA), adequate pressure must be applied to the bonding area to achieve maximum adhesion to the substrate.
Pressure should be applied evenly and progressively across the entire bonding area. The use of a hand roller or mechanical press is recommended. The minimum recommended application pressure is 10 N/cm² (approximately 14.5 psi).

Adhesive Removal
Adhesive residues can be removed using acetone, white spirit, mineral oil, paraffin wax, or biodegradable cleaners based on natural solvents.

Important: Always ensure that the substrate is compatible with the cleaning products listed above before use.

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