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Prodotti per Legatoria - Cartotecnica - Arti Grafiche
Saldatori Plastici Campionaristi Scatolifici

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 PRESS LOK

DESCRIPTION
Self-adhesive hook-to-hook fastening system. When the two components are pressed together, an audible click confirms that the fastening has been securely engaged.
The fastening system is designed to provide an average service life of 500 to 2,000 engagement cycles. Press-Lok is manufactured from a single-component, 100% recyclable polypropylene material. It is also available with a pressure-sensitive adhesive backing.

TECHNICAL SPECIFICATIONS

PARAMETER	VALUE
Material	Plastic resin (polypropylene)
Composition	Polypropylene
Thickness	0.84 mm
Weight	270 g/m² ± tollerance
Available Width	Up to 6¼ in ± tollerance (*other widths on request*)
Available Colours	Natural

* Values are indicative

PERFORMANCE CHARACTERISTICS

PARAMETER	VALUE
Peel test ITM-00175	Minimum: # N/cm Average: 1.24 N/cm (0,71 piw)

* Values are indicative

ADDITIONAL PERFORMANCE CHARACTERISTICS
Outdoor Use
Manufactured from polypropylene, which is susceptible to degradation when exposed to ultraviolet (UV) radiation. Not recommended for prolonged direct exposure to UV light.

Solvent Resistance
Polypropylene offers excellent resistance to a wide range of solvents and chemicals. However, testing under actual application conditions is always recommended.

Fire Resistance

This product is not self-extinguishing and should not be used in applications where flame resistance is required.

Water and Moisture Resistance
This product is not resistant to moisture.

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Sterilisation
This product has not been tested for physical sterilisation (autoclaving, steam or gamma irradiation) or chemical sterilisation (ethylene oxide or hydrogen peroxide). Testing under the intended application conditions is recommended.

Colour Fastness

Not applicable

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.

Electrostatic Discharge (ESD)
This product 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.

Joint Strength
The fastening system can be attached by heat welding or by using a pressure-sensitive adhesive (PSA).

APPLICATIONS
Medical
Ostomy bags and medical pouches.

Packaging
Stationery products, promotional packaging and gift packaging.

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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 recommended for indoor applications.

TECHNICAL SPECIFICATIONS

PARAMETER	VALUE
Material	Rubber-based Hot Melt adhesive with polyester film
Weight	302 g/m^2

* Values are indicative

PERFORMANCE CHARACTERISTICS

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

* Values are indicative

SUBSTRATE COMPATIBILITY

PARAMETER	VALUE
Aluminium	Recommended
Stainless steel	Recommended
Copper	Recommended
Glass	Recommended
Nylon	Not recommended
Polyester	Good
Polyurethane	Not recommended
ABS	Recommended
Polycarbonate	Recommended
PVC	Good
Acrylic	Recommended
PET	Good
Polystyrene	Recommended
PVA	Recommended
EVA	Recommended
Polyethylene (PE)	Recommended
Polypropylene (PP)	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.

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Solvent Resistance
Excellent chemical resistance. However, the adhesive has not been tested with automotive fluids, including petrol, engine oil and transmission fluid.

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, employing 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 be wiped afterwards 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 verify that the substrate is compatible with the cleaning products before use.

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