SNAPSHOOT
ENGINEERED FOR A SAFER TOMORROW

현장을 이해하고, 필요한 솔루션을 연결합니다.

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제품 제안부터 공급·시공·설치·교육까지



COMPANY INFORMATION

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TECHNICAL DOCUMENTS

인증서 · 데이터시트 · 기술자료

제품의 규격과 성능, 인증 및 적용 조건을 확인하기 위한 자료입니다.

ABOUT SNAPSHOOT

제품 공급을 넘어, 현장에 맞는 해결책으로

스냅슛은 산업현장의 작업 환경과 요구 조건을 바탕으로
적합한 제품과 시스템을 제안합니다. 현장 실사를 통해 설치 조건을 확인하고,
공급부터 시공·설치 및 사용 교육까지 필요한 과정을 함께합니다.

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전신형 안전대 · 랜야드 · 안전블록
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English-US

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Technical Data Sheet

3M™ Reclosable Fastener SJ3000 Thin Hook and Loop Back-to-Back

Product Details

Regulatory Info/SDS

Product Description

3M™ Reclosable Fastener SJ3000 is a thin back-to-back fastener that offers closure alternatives to plastic wire, tape, string, rubber bands and other types of closure systems used to secure bundles of items. Reclosable Fastener SJ3000 offers design flexibility, fast product assembly and improved product performance in many applications.

One side of the thin fastener strip is covered with tiny translucent polypropylene hooks, approximately 1400 per square inch (220/cm².). These hooks can engage with thousands of soft, pliable, thin polyester loops on the reverse side providing for a limited number of openings and closings (cycles). The thin loop is designed to easily engage with reclosable fastener SJ3000 hook and possibly other small hooks. The hook may also engage with many other loop materials. This forms a quick fastening attachment system. Simply pull the strips apart to disengage.

Technical Information Note

The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Typical Physical Properties

Attribute Name	Test Condition	Value
Color		Black
Weight		0.021 g/cm² (0.005 oz/in²)
Material		Hook: Polypropylene Loop: Polyester
Thickness	Unmated	0.69 mm (27 mil) [1]
Engaged Thickness		1.55 mm (61 mil) [1]

[1] Thickness depends upon the amount of compression load on the pieces.

Typical Performance Characteristics

Attribute Name	Temperature	Substrate	Value
90° Peel Adhesion	23 °C (73 °F)	Flexible to Rigid	5.3 N/cm (3 lb/in) [1]
90° Peel Adhesion	23 °C (73 °F)	Flexible to Rigid	5.25 g/cm width [1]
Overlap Shear Strength		Rigid to Rigid	21.6 N/cm² (31 lb/in²)
T-Peel Adhesion		Flexible to Flexible	3.9 g/cm width (2.2 lb/in width) [1]

[1] 300 mm/min (12 in/min)

Static Shear

Temperature	Value
49 °C (120 °F)	10,000 min [1]
70 °C (158 °F)	10,000 min [1]
93 °C (200 °F)	10,000 min [1]

[1] Holds 77.5 g/cm² (1.1 lb/in²) for given time and temp. 57 cm²/kg (4 in²/lb) static load is suggested. External conditions can affect long term performance. Fasteners may slip or creep when subjected to static loads at temps or weights greater than indicated.

Attribute Name	Value
Cycle Life	15 [1]
Long Term Temperature Resistance	93 °C (200 °F) [2]
Note	Performance tests are determined by measuring the performance of the entire reclosable fastener when the hook on one side is engaged to the loop on the other side of the fastener.

[1] Cycle life is the number of cycles (openings and closings) that the fastener is subjected to while maintaining 50% or greater of the 2nd closure peel values. Initial peels are slightly higher

[2] Long Term (day, weeks)

Typical Environmental Performance

Temperature: 38 °C (100 °F)
Environmental Condition: 100 %RH

Attribute Name	Value
Static Shear	10,000 min [1]

[1] Holds 77.5 g/cm² (1.1 lb/in²) for given time and temp. 57 cm²/kg (4 in²/lb) static load is suggested. External conditions can affect long term performance. Fasteners may slip or creep when subjected to static loads at temps or weights greater than indicated.

Typical Environmental Characteristics

Chemical and Environmental Exposure

Chemical Resistance: The polypropylene hook and polyester loop resist incidental attack by most common solvents and alkaline solutions. Acid solutions may cause deterioration of the loop. Small amounts of oils, mold release agents would not be expected to cause performance issues when in contact with 3M™ Reclosable Fastener SJ3000, except for the possible difficulty in starting a wrap.

Plasticizer Resistance: The polypropylene hook and polyester loop should have good resistance to direct contact with most plasticized materials.

Flammability Resistance: Reclosable Fastener SJ3000 will not pass common flammability tests when tested unattached to an substrate. If you need reclosable fasteners to meet many of the standard flammability tests (such as FAR 25.853, FMVSS-302), you may want to consider using 3M™ Reclosable Fasteners SJ3418FR/19FR, SJ3518FR/19FR.

Water (Humidity) Resistance: Closure strength should be minimally affected by high humidity conditions.

Handling/Application Information

Directions for Use

The following information is intended to assist the designer considering the use of 3M™ Reclosable Fastener SJ3000. It is recommended that the user evaluate 3M products to determine whether they are fit for a particular purpose and suitable for the user's materials, method of application and desired end use.

Reclosable fastener SJ3000 can easily be cut to desired dimensions and shapes per application need. The product is often used in rectangular strips 1/2" width by appropriate length required to wrap at least one and one half times around item(s)
being bundled plus a 0.5 inch (1.3 cm) tab or flag. A common formula for determining desired length is:
(Bundle or item circumference in inches) x (1.5) + 0.5 inch
(Bundle or item circumference in centimeters) x (1.5) + 1.3 cm

While reclosable fastener SJ3000 is more flexible than many common bundling materials, care should be exercised in wrapping bundles that have very small diameters, lest flagging of the end will occur, possibly leading to premature disengagement. To prevent premature or undesirable flagging a small quantity of a curable liquid adhesive, hot melt, epoxy or similar material could be applied joining the exposed end of the fastener with the underlying fastener. This method will make it more difficult to easily disengage the fasteners.

Rounding the corners can reduce the possibility of edge lifting or flagging while improving the overall appearance of the fastener on the finished product. Mechanically securing the corners of the fastener with rivets, staples, screws, etc. may reduce the closure performance.

Material Surface Preparation: Textured or rough surfaces, especially those that may engage with a hook or loop can allow easier starting of a wrap around an object(s). Very smooth surfaces may cause slippage or difficulty in starting the

wrap. In that case the surface could be roughened, or small strips of 3M™ Reclosable Fasteners SJ3506 or SJ3507 could be first applied to the surface.

Surfaces containing oils, mold release agents or other coatings and materials that can create a slippery surface should be avoided due to possible difficulty in getting the wrap started, or slipping in usage. It is recommended to remove any surface contaminants that may cause slippage or problems with starting the wrap by using a method suited for the type and quantity of surface slip agent present.

Engagement Procedure: Highly porous, soft or fragile materials such as some vegetables or foam materials may crush or collapse if too high of a pressure is applied during bundle wrapping. Approximately 2 pounds per inch width (0.4 kilograms per centimeter width) is required for engaging reclosable fastener SJ3000 to itself. For all applications, it is important to ensure that an acceptable amount of overlap at the end of the fastener is provided to prevent premature unwrapping or flagging.

The most common technique for attaching reclosable fastener SJ3000 is to wrap the product upon itself, forming the closure system to bundle items together, provide surface protection or to secure items during transport. To ensure full fastener strength the fastener should be completely overlapped, not spiral would unless the reduced engaged surface area is taken into account.

Application Examples

3M™ Reclosable Fastener SJ3000 can provide a firm closure system used to secure bundles of items or hold items in packaging during shipping or storage. Additionally, this product, in combination with 3M™ Reclosable Fasteners SJ3506 or SJ3507 could be used as a removable roll wrap for starting pull through of textile and similar materials. Wrapping a variety of surfaces can provide a removable protection. Because product performance will depend on actual conditions within any specific application, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular material purpose and suitable for the user's method of application.

Reclosable Fastener SJ3000 can be evaluated for use in:
Securing wire bundles Labeling garden plants/temporary identification
• During assembly, inspection, repair • Write-on loop for weather resistant label
• Abrasion protection (loop against wires) Box Closures
Securing light-weight items in shipping containers

Storage and Shelf Life

Store under normal conditions of 16° to 27°C (60° to 80°F) and 40 to 60% relative humidity in the original packaging, out of direct sunlight. For best performance, use this product within 24 months from date of manufacture.

Recognition/Certification

MSDS: This product is not subject to the MSDS requirements of the Occupational Safety and Health Administration's Hazard Communication Standard, 29 C.F.R. 1910.1200(b)(6)(v) and therefore 3M has not prepared a MSDS for this product. However, use or processing of the product in a manner not in accordance with the directions for use may affect its performance and present potential health and safety hazards.
TSCA: This product is defined as an article under the Toxic Substances Control Act and therefore, it is exempt from inventory listing requirements.

Automotive Disclaimer

Select Automotive Applications:
This product is an industrial product and has not been designed or tested for use in certain automotive applications, such as automotive electric powertrain battery or high voltage applications, which may require the product to be manufactured in a IATF certified facility, meet a Ppk of 1.33 for all properties, undergo an automotive production part approval process (PPAP), or fully adhere to automotive design or quality system requirements (e.g., IATF 16949 or VDA 6.3). Customer assumes all responsibility and risk if customer chooses to use this product in these applications.

Information

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ISO Statement

This product was manufactured under a 3M quality system registered to ISO 9001: 2000 and ISO/TS 16949: 2002 standards.

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