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

Product Information	on	September, 2010		
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/sq. cm.). 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.			
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Product Construction	Note: The following information is no limits. Rather, this data represe is intended for use as a guide to evaluation. Customer specificat this document. It is recommend	t product release requirements, nor product specification nts typical performance using standard test methods. Thi assist in selection of 3M [™] Reclosable Fasteners for furth ions should not be based solely on the data presented in ed that the customer test the product under expected use ation to determine actual suitability and performance.		
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Thin Hook and Loop Back to Back

Typical Performance

Properties and Characteristics Unless stated, typical system performance characteristics were measured under controlled laboratory conditions of $72^{\circ}F \pm 5^{\circ}F$ ($22^{\circ}C \pm 2.7^{\circ}C$) and $50\% \pm 10\%$ relative humidity. The user should evaluate products in the actual application to ensure suitable performance for the intended use.

Fastener Product	3M™ Reclosable Fastener SJ3000				
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.					
CLOSURE SHEAR (Rigid to Rigid Substrates	s) Pounds _F /inch ² (Newtons/cm ²)				
Dynamic Shear (1/2" x 1" overlap)	31 (21.6)				
Static Shear Holding Strength 100°F (38°C)/100% R.H 120°F (49°C 158°F (70°C 200°F (93°C	C) 10,000 minutes C) 10,000 minutes				
PEEL at 12 inches (305mm) per minute	Pounds _F /inch width				
"T" Peel Force (Flexible to Flexible)	2.2				
90° Peel Force (Flexible to Rigid) - Average	3.0				
CLOSURE CYCLE LIFE	15				
Cycle life is the number of cycles (openings and c	closings) that the fastener is subjected to while maintaining				

50% or greater of the 2nd closure peel values. Initial peels are slightly higher

Twenty four months from date of manufacturing
when stored in original packaging at $70^{\circ}F \pm 10^{\circ}F$ (21°C ± 5.5°C) and 50% ± 10% relative humidity.

Note: Long Term Static Load: Conditions such as temperature variations, engagement area, closure pressure and vibrations or side to side movement after engagement or exposure to prolonged periods of moisture, ultraviolet or other environmental factors can affect the closure strength and long term static load performance. Reclosable fasteners may slip or creep in the direction of the static load forces when subjected to static loads at temperatures or weights greater than indicated. The user is responsible for designing the amount of fastening area based upon the specific conditions for the application. Four square inches of fastening area per pound (57.3 sq. cm/kilogram) of static load is suggested as a starting point for such evaluations.

Additional Performance Characteristics

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 3MTM 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 3MTM Reclosable Fasteners SJ3418FR/19FR, SJ3518FR/19FR and SJ3486FR/87FR.

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

3MTM Reclosable Fastener SJ3000

Thin Hook and Loop Back to Back

Attachment Techniques	The following information is intended to assist the designer considering the use of 3M TM 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 TM 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				

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.

3MTM Reclosable Fastener SJ3000

Thin Hook and Loop Back to Back

Application Ideas	3M TM 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 TM 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 Securing wire bundles During assembly, inspection, repair Abrasion protection (loop against wire) 	Labeling garden pl • Write-on loop Box Closures	n: ants/temporary identification for weather resistant label ht items in shipping containers		
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	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.				
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