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# 3M<sup>™</sup> Hook Fastener SJ3526N

#### **Product Description**

3M<sup>™</sup> Hook and Loop Fasteners ouer advanced closure alternatives to zippers, screws, snaps, hooks and more. They ouer greater design flexibility, faster product assembly, smoother and cleaner exterior surfaces and improved product performance in many applications. 3M hook and loop fasteners consist of hooks and loops which engage to form a quick fastening attachment. Simply pull the strips apart by hand to disengage.

#### **Product Features**

The woven nylon hook has flexible, self-supporting inverted j-hooks protruding up from the backing with approximately 300 hooks per square inch (46 hooks/square cm). The woven nylon loop has thousands of soft, pliable napped loops protruding above the backing, providing for thousands of openings and closings (cycles). Both the hook and loop are preshrunk to insure maximum dimensional stability and flatness. Standard colors available are black, white and beige, with several custom colors available with extended delivery times and additional costs.

SJ3526N hook is coated on the backside with a high performance rubber based pressure sensitive adhesive which allow for easy and convenient attachment to a variety of substrates, including low surface energy plastics.

Commonly paired with 3M<sup>™</sup> Loop Fastener SJ3527N, this hook fastener can also engage with other 3M<sup>™</sup> Loop Fasteners.



## **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**

Thickness		Test Condition
2.4 mm	91 mil	Unmated without liner
3.6 mm	140 mil	Mated without liner

Property: Thickness

notes: Using 1/2" pressure foot with 34 gram weight

Property	Values		Attribute Modifier
Material	Hook- Woven Nylon		
Backing	High Performance rubber based PSA		
Liner	Polyethylene with red printing		
Liner Color	White		Primary
Liner Thickness	0.08 mm	3 mil	
Weight	0.062 g/cm <sup>2</sup>	0.014 oz/in²	

## **Typical Performance Characteristics**

Property	Values		Substrate	Notes
Dynamic Tensile	7.6 N/cm²	11 lb/in²	Nylon Hook to Nylon Loop	Run at 12 inches per minute
Overlap Shear Strength	15.2 N/cm <sup>2</sup>	22 lb/in²	Nylon Hook to Nylon Loop	Run at 12 inches per minute
Cleavage Strength	13.1 g/cm width	7.5 lb/in width	Nylon Hook to Nylon Loop	
T-Peel Adhesion	3.5 g/cm width	2 lb/in width	Nylon Hook to Nylon Loop	Run at 12 inches per minute
90° Peel Adhesion	3.9 g/cm width	2.2 lb/in width	Nylon Hook to Nylon Loop	12 in/min (300 mm/min)
Cycle Life	5000		Nylon Hook to Nylon Loop	Number of closures before losing 50% of original strength

# **Typical Performance Characteristics (continued)**

# **Product Performance:**

Material Dynes mJ/m²	Polypropylene 29 Low S	Polyethylene 31 Surface Energy Pla	EVA 33 stics	Acrylic 38 Medium S	PC 42 Surface Ener	ABS 42 gy Plastics	Aluminum 840 High Surface	Stainless Steel 700-1100 Energy Materials	Typical Temperature Resistance °f
SJ3401 SJ3402		Sew on		Sew on		Se	200		
SJ3530 SJ3531	x	x	x	x	x	x	x	x	90
SJ3532N SJ3533N	x	x	x	x	x	x	x	x	110
SJ3526N SJ3527N	x	x	x	x	x	x	x	x	120
SJ3522 SJ3523				x	х	x	x	x	150
SJ3571 SJ3572				x	x	x	x	x	200
		x	C - Typicall	y good adhe	esion wit	hout the u	se of surfac	e primer	

Additional Information

Notes: This guide should assist you in determining which product will adhere best to your substrate for.

#### Handling/Application Information

#### **Directions for Use**

Attachment Techniques

The following information is intended to assist the designer considering the use of 3M hook and loop fasteners. System product performance depends upon a number of factors, including the fastener (material, adhesive and area), application method, surface characteristics (material, text ure and cleanliness), environmental conditions (moisture, ultraviolet and temperature exposure) and the time it is expected to support a given load. Because many of these factors are uniquely within the user's knowledge and control, it is required that the user evaluate 3M products to determine whether they are fit for a particular purpose and are suitable for the user's substrates, method of application and desired end use.

Rounding the corners, slightly recessing the product into the substrate, or providing raised edges around the Reclosable fastener can reduce the possibility of edge lifting and improve the overall appearance of the fastener on the finished product. Mechanically securing the corners of the fastener with rivets, staples, screws, etc. may also reduce the possibility of edge lifting, but may reduce the closure performance.

The two most common techniques for attaching these 3M hook and loop fasteners to various surfaces are summarized below.

Pressure Sensitive Adhesive Attachment: The use of pressure sensitive adhesives eliminates or reduces the need for sewing, solvent activation, dielectric or ultrasonic bonding or bulk adhesive bonding. This can result in simplicity, improved safety and lower installation costs. Pressure sensitive adhesive products can be applied manually or automatically using a variety of equipment choices. Contact your 3M Sales Representative to discuss automated equipment options.

Surface Preparation: Highly textured surfaces may reduce the ultimate adhesion levels and care should be given to minimize the surface texture or roughness. Adhesive backed fasteners should be applied to surfaces that are clean, dry and free of oil, grease, dust, mold release agents or surface contaminants that could reduce the adhesion. It is recommended to remove any surface contaminants that may reduce adhesion by using a method suited for the type and quantity of surface contaminants present. Isopropyl alcohol is a good general use solvent for cleaning contaminants from surfaces for example.

In exceptional cases, especially when removing silicone mold release agents or on rough, porous surfaces, it may be necessary to lightly abrade the surface, use an adhesion promoter, or surface sealer to optimize the adhesive bond to the substrate. The selection of abrasion, priming or sealing methods will depend upon the substrates and the environmental conditions the product will be exposed to during use.

Attachment Procedure: To obtain optimum bond to any surface, both the fasteners and the target surfaces should have equilibrated for a minimum of one hour at temperatures between 68°F (20°C) to 100°F (38°C) before application. The liner protecting the adhesive is removed and preferably without touching the adhesive, the fastener is applied to the substrate. Exposure of the adhesive to ambient conditions without the protective liner, before applying to the surface, should be minimized as initial adhesive tack may decrease. Flexible materials should be lying on a hard flat surface so as to permit uniform adhesive contact with the surface. Use of a rubber hand roller, press platen or similar device is recommended to ensure full adhesive contact or wet- out with the substrate surface. Approximately 4.5 pounds of force per square inch, (310 grams per square centimeter) is recommended to increase adhesive contact, improving bond strength. For all adhesive applications, it is important to ensure that the edges are rolled down to reduce the chance of edge lifting.

The plain backed 3M hook and loop fasteners are most commonly sewn into their applications. Liquid or hot melt adhesives and staples are other forms of attachment that can be utilized.

Sewing: Although the selvedge edge was initially developed for stitching on, customers often find that they get better anchorage when stitching through the 3M hook and loop portions of the fastener – this may be application dependent. The type of thread and stitch type is also best determined based on individual application, however, the fastener should be stitched on all edges for the best seam strength. Typically, special machine adjustments are not necessary when using our 3M hook and loop fasteners

#### Storage and Shelf Life

Shelf Life when stored in original packaging at 72°F (22°C) and 50% RH is 18 months from date of manufacture.

#### Trademarks

3M is a trademark of the 3M Company.

# 3M<sup>™</sup> Hook FastenerSJ3526N

#### References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/company-us/all-3m-products/~/3M-Hook- Fastener-SJ3526N?N=5002385+3293241231&rt=rud
Safety Data Sheet (SDS)	https://www.3m.com/3M/en_US/company-us/SDS-search/results/? gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=SJ3526N

### **Family Group**

	<b>SJ340</b> 1	SJ3522	SJ3523	SJ3526N	SJ3527N	SJ3402	SJ353	SJ3571	SJ3572	SJ3532N	SJ3533N	SJ353
Thickness (mm) Test Condition: Unmated without liner	2	2.4	3.2	2.4	3.2	2	3.2	3.2	2.4	2.03	3.05	2.4
Thickness (mm) Test Condition: Mated without liner	3.1	3.6	3.6	3.6	3.6	3.1	3.6	3.6	3.6	3.3	3.3	3.6
Liner Color Attribute Modifier: Primary		Clear	Clear	White	White		Whit e	Clear	Clear			Whit e
Material	Loop- Woven Nylon	Hook- Woven Nylon	Loop- Woven Nylon	Hook- Woven Nylon	Loop- Woven Nylon	Hook- Woven Nylon	Loop - Wov en Nylo n	Loop- Woven Nylon	Hook- Woven Nylon	Hook- Woven Nylon	Loop- Woven Nylon	Hook - Wov en Nylo n
Backing	No Adhesi ve Sew on	Plasticiz er resistan t acrylic PSA	Plasticiz er resistan t acrylic PSA	High Performan ce rubber based PSA	High Performan ce rubber based PSA	No Adhesi ve Sew on	Gene ral Purp ose rubb er base d PSA	High Perfor mance Acrylic PSA	High Perfor mance Acrylic PSA	Rubber based PSA	Rubber based PSA	Gene ral Purp ose rubb er base d PSA
Liner	None	Non printed polyole fin film	Non printed polyole fin film	Polyethyle ne with red printing	Polyethyle ne with red printing	None	Polyp ropyl ene	Polyole fin with emboss ed 3M logo	Polyole fin with emboss ed 3M logo	White Polypropyle ne	White Polypropyle ne	Polyp ropyl ene
Liner Thickness (mm)		0.089	0.089	0.08	0.08		0.08	0.1	0.1	0.08	0.08	0.08

#### **ISO Statement**

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

#### Information

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