



Hook and Loop Fasteners

SJ3403 and SJ3404

Nylon Loop and Hook

Plain back

Made in the USA

Meets A-A55126B

Preliminary Technical Data

April, 2012

Product Description

3M™ Hook and Loop Fasteners offer advanced closure alternatives to zippers, screws, snaps, hooks and more. They offer greater design flexibility, faster product assembly, smoother and cleaner exterior surfaces and improved product performance in many applications.

These products are for sewing applications, they have no adhesive backing.

The woven nylon hook backing has flexible, self-supporting inverted J-hooks protruding up from the backing. There are approximately 280 hooks per square inch (41 hooks/square cm). The woven nylon loop backing has thousands of soft, pliable napped loops protruding above the backing, providing for thousands of openings and closings (cycles). The hook and loop are preshrunk to insure maximum dimensional stability and flatness.

Product Construction

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

Products	3M™ Scotchmate™ Reclosable Fastener SJ3404 (Hook) SJ3403 (Loop)	
Material of Construction	Hook Loop	woven nylon woven nylon
Standard Colors*	Black	
Thickness unmated	Hook Loop	0.077 in. (1.95 mm) 0.098 in. (2.5 mm)
Engaged Thickness	0.12 in. (3.05 mm)	
Shelf Life	To obtain best performance, use this product within two years from date of manufacture.	
Storage	Store in original packaging between 60° to 80°F (16° to 27°C) and 40 to 60% relative humidity.	

*Other colors available including military colors upon request.

3M™ Hook and Loop Fasteners

SJ3403 and SJ3404

Nylon Loop and Hook • Plain back

Typical System Performance Characteristics

Note: This information is not product release requirements, nor product specifications. Rather this data represent typical performance using standard test methods. This is intended for use as a guide to assist in selection of 3M™ Scotchmate™ Reclosable Fasteners for further evaluation.

Customer specifications should not be based solely on the data presented in this document.

Unless stated, typical system performance characteristics were measured under controlled laboratory conditions of 72°F (22°C) and 50% relative humidity. The user should evaluate products in the actual application to ensure suitable performance for the intended use.

3M™ Scotchmate™ Reclosable Fasteners SJ3403 Loop engaged to SJ3404 Hook

TENSILE (Rigid to Rigid Substrates)		lbs./sq inch
Dynamic Tensile Engagement Strength		< 1.0
Dynamic Tensile Disengagement		9.0
Static Tensile 1" x 1" Holding Power		Holds 1.1 lbs./in ² (76 grams/cm ²) for indicated Time and Temperature
	72°F	10,000 minutes (no failure, stopped test)
	100°F/100% RH	10,000 minutes (no failure, stopped test)
SHEAR (Rigid to Rigid Substrates)		lbs./sq inch (Newton/cm ²)
Dynamic Shear (1" x 1" overlap)		15
Static Shear Holding Power		Holds 2.2 lbs./in ² (155 grams/cm ²) for indicated Time and Temperature
	72°F	10,000 minutes (no failure, stopped test)
	100°F/100% RH	10,000 minutes (no failure, stopped test)
PEEL AND CLEAVAGE		Pounds/inch width (Newton/cm)
Peel Strength "T" Peel, Flexible to Flexible		1.0
Peel Strength 90° Peel, Flexible to Rigid		2.7
Cleavage Peel Strength, Rigid to Rigid		9.0

3M™ Hook and Loop Fasteners

SJ3403 and SJ3404

Nylon Loop and Hook • Plain back

Recognition

All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

Product Use

Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

Warranty, Limited Remedy, and Disclaimer

Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. If the 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability

Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

ISO 9001:2000 - ISO/TS 16949:2002

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.



Industrial Adhesives and Tapes Division

3M Center, Building 225-3S-06
St. Paul, MN 55144-1000
800-362-3550 • 877-369-2923 (Fax)
www.3M.com/industrial



Recycled Paper
40% pre-consumer
10% post-consumer

3M and Scotchmate are trademarks of 3M Company.
Printed in U.S.A.
©3M 2012 70070938983 (4/12)