



ScotchmateTM

Hook & Loop Fastening System SJ3530 (Hook) & SJ3531 (Loop)

Product Data Sheet

Updated : July 1999
Supersedes : January 1995

Product Description High Peel Moderate Shear Pressure Sensitive SJ3530 (Hook) SJ3531 (Loop)
3M Scotchmate hook and loop fasteners described here consist of two woven strips, one of which is covered with tiny stiff hooks and the other with pliable loops.

Pressed together they fasten; to open simply pull apart.
Scotchmate hook and loop fasteners are coated on the backside with a pressure sensitive adhesive. This allows the products to be used in typical hook and loop fastening applications

while adhering to a variety of different surfaces.

Physical Properties
Not for specification purposes

Adhesive Type		3M ref :
Width (mm)	19 mm 25 mm 38 mm 50 mm	
Release Liner	Yellow Polypropylene	
Colours	Black, White	
Shelf Life	12 months from date of despatch by 3M when stored in the original carton at 21°C (70°F) & 50% Relative Humidity	

Performance Characteristics
Not for specification purposes

Temperature Performance		
Continuous	-29° to 43°C	When used for static load applications, temperatures should not exceed 43°C.
Intermittent	-29° to 49°C	

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Backing/Substrate Selection

3M Scotchmate Fasteners provide a firm adhesive bond to a wide variety of

surfaces, including (under most conditions) the following:

***Note:** some plasticisers on plasticised vinyl have an adverse effect on the strength of the adhesive bond of the fastener over time.

SUBSTRATES	PRESSURE-SENSITIVE ADHESIVE-BACKED
Base Metal	✓
Painted Metal	✓
Finished Wood	✓
Plastics : Polystyrene	✓
Acrylic	✓
Polyethylene	✓
Polypropylene	✓
Polycarbonate	✓
Rigid Vinyl	✓
Plasticised Vinyl	✓ *
Paper, cardboard	✓
Glass	✓

Application Information

Press Bonding :

May be bonded to fabrics** 1.6mm utilising heat and, or pressure. Heat through substrate.

****Note:** 3M Scotchmate fasteners are washable but not drycleanable.

Typical Press Bonding :

Bonding Temperature :
121°C to 218°C

Bonding Pressure :
210 to 690 kPa

Bonding Time :
3 to 30 seconds.

Application Techniques

Pressure Sensitive Attachment:
 Adhesive backed 3M Scotchmate fasteners should be applied above 20°C to surfaces that are smooth, dry and free of oils or mould release agents. It is recommended to wipe the substrate with an isopropanol/water solution (50/50) or with Heptane and allow to dry.

(Note: When using solvents, be sure to follow the manufacturer's precautions and directions for use.)
 With firm roller pressure, apply the fastener allowing an appropriate dwell time at room temperature before loading or disengaging. Do not touch adhesive after liner is removed. To increase resistance to edge lifting, round the corners or recess product into substrate.

Minimum Dwell Time :

1 hour.

Recommended Dwell Time :

24 hours.

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Closure Performance Characteristics

3M Scotchmate hook and loop fasteners derive their strength from the area of engagement as well as closure pressure.

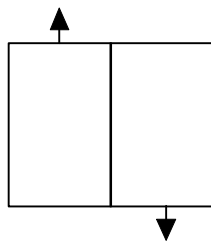
Vibration or side to side movement tends to increase closure performance. The properties shown here are measured under defined laboratory conditions (50% R.H., 21°C).

Tests are designed for maximum reliability. Closure characteristics are indicated by both minimum and typical values.

Closure Performance at 21°C and 50% R.H.

Minimum

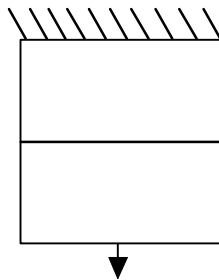
Typical



Dynamic Shear ^a
(kPa)

55

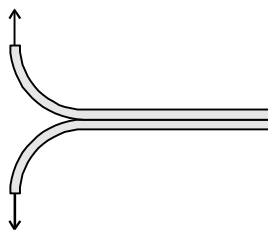
97



Dynamic Tensile ^b
(kPa)

21

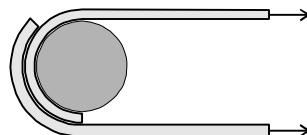
31



Lengthwise peel
(N/100mm)

18

33



Overlap Shear: Overlapping 3M Scotchmate Hook and Loop around a curved surface significantly increases shear strength.

^a. Hook and Loop products are engaged with firm pressure and disengaged at a separation rate of 305mm/min.

^b. Tested on rigid surfaces.

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Additional Information

Scotchmate fastening systems are 100% Nylon. They are pre-shrunk to ensure maximum dimensional stability and flatness.

The loop surface is napped for maximum engagement strength and reclosure life.

3M and Scotchmate are trademarks of the 3M Company.

Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications. This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations.



Tapes & Adhesives

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