



# Reclosable Fasteners Design Guide

*Hidden strength for multiple openings and closings  
wherever people live, relax, work, or play*



## 3M™ Reclosable Fasteners

# Smooth surfaces for your design with closure strength and opening ease matched to the job

Zippers, screws, bolts, snaps, hooks and other traditional reclosable fasteners open and close. But if you want to imagine more and achieve more in product design and assembly, consider 3M Reclosable Fasteners for many closings or attachments and easy openings or removals.

### Clean lines and smooth sleek surfaces –

3M Reclosable Fasteners are hidden beneath the surface of your product. With adhesive-backed fasteners, there are no surface holes or protrusions.



*In and around the seat, 3M™ Flame Resistant Scotchmate™ Reclosable Hook and Loop Fasteners secure a kickplate/access panel, hold seat cushions in place, and fasten carpeting to the floor.*



*Attach interior wood muntin bars to window glass with clear 3M™ Dual Lock™ Low Profile Reclosable Fasteners.*

### Fast, easy assembly –

Adhesive-backed versions apply as quickly and easily as tape to many plastics, bare or painted metal, sealed wood, glass and more.



*For a lightweight, portable exhibit, the hook side of a 3M™ Scotchmate™ Thin Reclosable Fastener is adhered to the back of a flexible graphic and meshes directly with the fabric backwall.*

### Expanded design options –

Select closure strengths, shapes, thicknesses, opaque or transparent and plain or pressure sensitive adhesive backings. Adhesives are available with a selection of characteristics such as flame resistance, low or high temperature resistance, bonding to low surface energy plastics, plasticizer resistance and more.

## Rolls, piece parts, and custom fabrication



3M™ Reclosable Fasteners are available in rolls. All can be die-cut to fit your design and manufacturing process. 3M™ Dual Lock™ Reclosable Fasteners are also available in ready-to-use piece parts for application where limited surface area prohibits pressure sensitive attachment. Pre-drilled and pop-in stems help simplify fabrication.



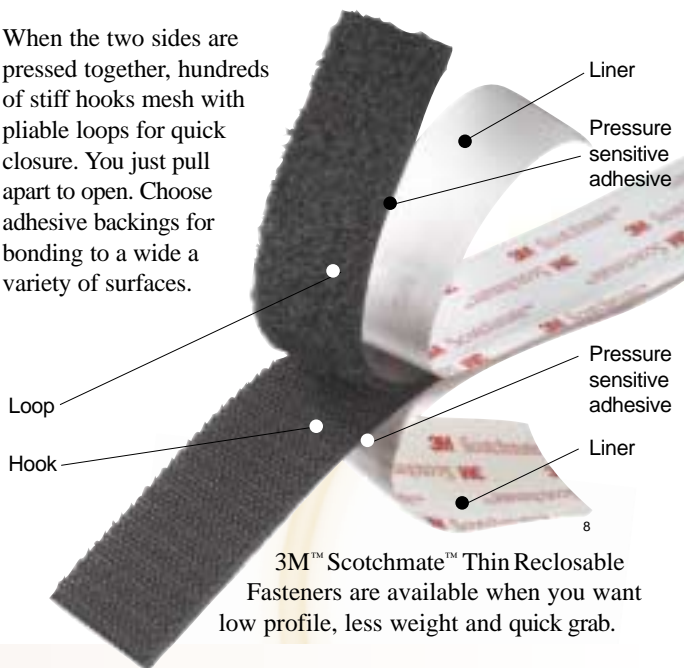
*Pre-cut 3M™ Dual Lock™ Reclosable Fasteners hold access panels in electronic equipment. Pre-cut shapes are available with pressure sensitive adhesive or plain backing. Pop-in stems, slide-in pieces or mechanical attachments provide alternative options.*



*In retail custom framing, frame samples backed with die-cut 3M™ Scotchmate™ Reclosable Fasteners remove from the wall display and replace thousands of times for customer inspection and service.*

## 3M™ Scotchmate™ Reclosable Fasteners family for thousands of easy openings and closings

When the two sides are pressed together, hundreds of stiff hooks mesh with pliable loops for quick closure. You just pull apart to open. Choose adhesive backings for bonding to a wide variety of surfaces.



3M™ Scotchmate™ Thin Reclosable Fasteners are available when you want low profile, less weight and quick grab.

## 3M™ Dual Lock™ Reclosable Fasteners family for hundreds of closures with greater holding power

When the two sides are pressed together, hundreds of mushroom-shaped stems interlock. “Snap” announces that the fastener is engaged. Compared to hook and loop, tensile strength is greater with 5x more holding power. Choose adhesive-backed for a wide variety of surfaces or plain-backed for sewing, stapling or ultrasonic welding into place.



3M™ Dual Lock™ Low Profile Reclosable Fasteners are available when you want features similar to standard 3M™ Dual Lock™ Reclosable Fasteners, but a thinner version.



### Click for reclosable ideas in these and other areas

- Aerospace
- Automotive Interiors
- Commercial Vehicles (trucks, trailers, buses and rail cars)
- Home and Office
- Electronics and Electrical
- Marine
- P.O.P. and Displays



## 3M™ Scotchmate™ Reclosable Fasteners

Product Hook	SJ# Loop	Fastener Material	Closure Life (Max.)	Adhesive Type	Liner	Engaged Thickness in. (mm)	Operating Temperature	Resist Flame	Other Features
3519FR	3518FR	FR Nylon	5,000	Rubber	Film	0.15 (3.8)	120°F (49°C)	•	Meets FAR 25.853
3522	3523	Nylon	5,000	Acrylic	Film	0.15 (3.8)	158°F (70°C)		Plasticizer resistant adhesive
3526N	3527N	Nylon	5,000	Synthetic rubber	Film	0.15 (3.8)	120°F (49°C)		Lead-product
3530	3531	Nylon	5,000	Synthetic rubber	Film	0.15 (3.8)	100°F (37°C)		Aggressive adhesive
3532N	3533N	Nylon	5,000	Synthetic rubber	Film	0.15 (3.8)	110°F (43°C)		Medium tack
3572	3571	Nylon	5,000	Acrylic	Film	0.15 (3.8)	200°F (93°C)		High performance acrylic adhesive
3576*	3577*	Polyester*	1,000	Acrylic	Film	0.15 (3.8)	200°F (93°C)		High performance acrylic adhesive
3586FR*	3587FR*	FR Polyester*	1,000	Synthetic rubber	Film	0.17 (4.3)	120°F (49°C)	•	Meets FAR 25.853
<b>3M™ Scotchmate™ Thin Reclosable Fastener</b>									
3506	3507	Polypropylene / Polyester	50	Acrylic	Paper	0.04 (0.09)	120°F (49°C)		Thin, limited cycle life

\*Polyester fasteners are best suited where weight gain from moisture is not desired.

Standard colors: Black, white, beige (also available in custom colors – minimums apply)

## 3M™ Dual Lock™ Reclosable Fasteners

Product (250 / 400 / 170)	Fastener Material	Closure Life	Adhesive Type	Color	Engaged Thickness in. (mm)	Operating Temperature	Other Features
3440 / 41 / 42	Polypropylene	1,000	None	Black	0.21 (5.3)	200°F (93°C)	Plain back
3223 / 3443 / 44	Polypropylene	1,000	None	Black	0.24 (6.1)	200°F (93°C)	Non-woven backing for attaching
3460 / 61 / 62	Polypropylene	1,000	None	Clear	0.21 (5.3)	200°F (93°C)	Clear for color matching
3540 / 41 / 42	Polypropylene	1,000	Rubber	Black	0.28 (7.2)	120°F (49°C)	Good for LSE bonding
3550 / 51 / 52	Polypropylene	1,000	Acrylic	Black	0.27 (6.9)	180°F (82°C)	High performance acrylic foam adhesive
* / 53 / 54	Polypropylene	1,000	Acrylic	Black	0.29 (7.4)	180°F (82°C)	Grey foam
3560 / 61 / 62	Polypropylene	1,000	Acrylic	Clear	0.27 (6.9)	180°F (82°C)	Clear for color matching, high performance VHB tape adhesive
<b>3M™ Dual Lock™ Low Profile Reclosable Fastener</b>							
4570	Polypropylene	100	Acrylic	Clear	0.105 (2.7)	158°F (70°C)	Low profile, LSE adhesive
4580	Polypropylene	100	Acrylic	Clear	0.110 (2.8)	180°F (82°C)	Low profile, high performance VHB tape adhesive

All PSA products are on film liners (except SJ4570 and SJ3506/07 have paper liners) – four square inches of fastening area per pound of static load is a suggested starting point.

Rubber adhesives are suited for indoor applications or attachments to low surface energy (LSE) materials such as polyethylene, polypropylene, powder coated paints, etc. Acrylic adhesives are better suited for outdoor, high temperature or high humidity applications.

\* Not available in 250. See Dual Lock Mix and Match Program for alternative adhesives – Refer to Fastening Price Pages

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

**Now it's easier than ever to get connected – [www.fastenation.com](http://www.fastenation.com). Or 1-800-876-9922 for additional information or sales assistance.**

**PRODUCT USE:** 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.

**WARRANTY AND LIMITED REMEDY:** 3M warrants that each 3M product meets the applicable specifications at the time 3M ships the product. **3M MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE.** User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's application. If the 3M product is defective, your exclusive remedy and 3M's and seller's sole obligation will be, at 3M's option, to repair or replace the product or refund the purchase price. **LIMITATION OF LIABILITY:** Except where prohibited by law, 3M and seller 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.



**Industrial Business  
Industrial Adhesives and Tapes Division**

3M Center Bldg. 21-1W-10  
900 Bush Ave.  
St. Paul, MN 55144



**Product Distribution by:**

120 Brighton Road, Unit 2  
Clifton, NJ 07012  
**800.876.9922**  
Fax: 800.758.5424  
Email: [sales@fastenation.com](mailto:sales@fastenation.com)  
**www.fastenation.com**

3M, Scotchmate and Dual Lock are trademarks of 3M.

Printed in U.S.A.  
© 2005 3M 70-0709-3949-4  
70-0709-3950-2 (with inserts)