



# Dual Lock™ Reclosable Fasteners

SJ3541/2 • SJ3551/2 • SJ3560

## Product Information

December 2002

### Description



Dual Lock Reclosable Fasteners consist of continuous strips of plastic backing, with plastic mushroom shaped stems protruding up from the backing strip. When two pieces of Dual Lock fasteners are pressed together, the mushroom heads interlock with one another, with an audible “snap”. To open, simply pull apart. This provides fast, secure reclosable fastening performance for a wide range of applications. Cycle life exceeds 1000 reclosures.

Dual Lock Reclosable Fasteners can replace conventional fasteners such as screws, clips, rivets and bolts in many applications. They are supplied with an adhesive backing for fast, invisible fixing on many substrates. Simply peel off the liner and press in place.

### Product Range

**Dual Lock SJ3541/2** is a black fastener with a synthetic rubber adhesive. It is suitable for indoor applications, or where the adhesive is protected from UV. It has excellent adhesion to a wide range of materials including difficult to bond to materials such as polypropylene and polyethylene.

**Dual Lock SJ3551/2** is a black fastener, backed with high performance VHB™ Tape. The adhesive forms exceptionally strong bonds to a wide range of materials. The adhesive and fastener are UV resistant, making the product suitable for exterior applications.

**Dual Lock SJ3560** is a self mating, clear fastener, backed with high performance clear VHB™ Tape. On coloured substrates, it will allow the colour to show through. The adhesive and fastener are UV resistant, making the product suitable for exterior applications.

**Dual Lock Low Profile SJ4570** is a thinner fastener with an acrylic adhesive and a shorter cycle life (25-100). Further information is available on a separate sheet.

### Physical Properties/Typical Performance Characteristics\*

	SJ3541/2	SJ3551/2	SJ3560
<b>Colour</b>	Black/Black Adhesive	Black/White Adhesive	Clear/Clear Adhesive
<b>Adhesive type</b>	Rubber	VHB™ Tape	VHB™ Tape
<b>Temperature range, short term (mins, hours)</b>	-29°C to 70°C	-29°C to 93°C	-29°C to 93°C
<b>Temperature range, long term (days, weeks)</b>	-29°C to 49°C	-29°C to 70°C	-29°C to 70°C
<b>UV Resistance</b>	Protect adhesive from UV	Excellent	Excellent
<b>Plasticiser resistant</b>	No	Yes	Yes
<b>Cycle life</b>	1000+	1000+	1000+

\*Not recommended for specification purposes

## 3M Dual Lock™ Reclosable Fasteners

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#### Selection Considerations

Surface suggestions	SJ3541/2	SJ3551/2	SJ3560
Bare Metals	✓	✓	✓
Paints	✓	✓	✓
Gel coat	✓	✓	✓
Fibreglass resin side	-	*	*
Glass	✓	✓	✓
Sealed Wood	✓	✓	✓
Powder coating	✓	**	**
ABS	✓	✓	✓
Acrylic (Perspex)	✓	✓	✓
Polycarbonate	✓	✓	✓
Polystyrene	✓	✓	✓
Rigid PVC	✓	✓	✓
Plasticised Vinyl	-	✓	✓
Polyethylene	✓	-	-
Polypropylene	✓	-	-

\*See priming instructions. \*\* Scuff powder coating before cleaning. Test adhesion.

Further detailed technical information is available for all products from [www.3m.com/adhesives](http://www.3m.com/adhesives) (click on Data Pages) or [www.3m.com/fasteners](http://www.3m.com/fasteners) or by contacting 3M Customer Services on ph 0800 200 713, fax 0800 508 980 or e-mail [nzsolutions@mmm.com](mailto:nzsolutions@mmm.com). Data sheets can be provided electronically or by fax.

#### Available Formats

Dual Lock is packaged in bulk rolls, or Mini Packs for convenience of use. There are 2 25.4 mm wide rolls of 4.5 m long in each mini pack.

#### Mini Packs

**MP3541/2:** 4.5 m each of SJ3541 and SJ3542

**MP3551/2:** 4.5 m each of SJ3551 and SJ3552

**MP3560:** 2 x 4.5 m of self-mating SJ3560



#### Bulk rolls

Dual Lock Type	Colour	Adhesive	Roll Size	Rolls per carton
SJ3541	Black	Rubber	12.7 mm x 45 m	4
			25.4 mm x 45 m	2*
SJ3542	Black	Rubber	12.7 mm x 45 m	4
			25.4 mm x 45 m	2*
SJ3551	Black	VHB (white)	12.7 mm x 45 m	4*
			25.4 mm x 45 m	2*
SJ3552	Black	VHB (white)	12.7 mm x 45 m	4*
			25.4 mm x 45 m	2*
SJ3560	Clear	VHB (clear)	12.7 mm x 45 m	4*
			25.4 mm x 45 m	2*

\*Available indent only

# 3M Dual Lock™ Reclosable Fasteners

## SJ3541/42 • SJ3551/2 • SJ3560

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### Application Information

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#### Application Temperature

The ideal **application** temperature is 20<sup>0</sup>C to 38<sup>0</sup>C.

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#### Cleaning

All surfaces **MUST** be cleaned before Dual Lock is applied.  
Use a 50:50 mixture of isopropyl alcohol and water. Methylated spirits can be used instead of isopropyl alcohol.  
On gel coat clean with 'Prepsol' or similar, to remove mould wax, before cleaning with alcohol.

- Apply the cleaning mix with a clean paper wipe or cloth.
- Wipe dry with a clean paper wipe or cloth before the cleaning mix evaporates.
- Wipe in one direction to remove dirt.
- Change wipes regularly.



#### Abrading

Lightly abrading most plastics and paints prior to cleaning will increase performance with SJ3551/2 and SJ3560.  
Use Scotch-Brite hand pads or powered discs to abrade the surfaces.  
There is little benefit from abrading when using SJ3541/2.



#### Priming

**Bare timber:** SJ3541/2 may be suitable on bare timber or MDF, depending on the surface finish and texture. With SJ3551/2 and SJ3560 the surface must be sealed or painted first. Use good quality oil based paints or varnish and allow to dry thoroughly. Test adhesion to the paint surface before use.  
**Fibreglass:** On the resin side of fibreglass apply a **very thin** coat of neoprene contact adhesive, allow to fully dry, then apply Dual Lock.

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#### Rub Down

The adhesive bond strength depends on the amount of surface to surface contact.

Firm pressure is necessary so that surfaces fully contact the adhesive. Use of a roller is recommended.

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#### Dwell Time

The bond strength with SJ3551/2 and SJ3560 increases as the adhesive flows into the surfaces.

Generally at 20<sup>0</sup>C bond strength will be achieved as follows:

**50% in 20 minutes**

**90% in 24 hours**

**100% in 72 hours**

Lower temperatures will increase these times. Higher temperatures will reduce them.

There is little increase in bond strength with time with SJ3541/2

## 3M Dual Lock™ Reclosable Fasteners

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**How Much Dual Lock To Use** Dual Lock has the same load carrying capacity in tensile (pulled directly apart) or shear (pulled parallel to the face of the hooks). Allow for any load that may come from the shape of joined items, on top of the weight of the item. eg. Extra Dual Lock may be needed at the centre of concave panels or the ends of convex panels.

**Note that the lengths below refer to the amount of Dual Lock required on each surface.**

#### Length of Dual Lock Required\*

Weight in kg	13mm wide Dual Lock	25mm wide Dual Lock
0.5	215mm	110mm
1	430mm	215mm
2	865mm	430mm
3	1.300m	650mm
4	1.730m	865mm
5	2.155m	1.080m
10	4.330m	2.165m

\*Suggested amounts to use. Consider any shock loads and the consequence of failure. Use these lengths up to 50°C. Above 50°C and up to 93°C double the length given in the chart. The lengths for other weights can be calculated by adding or multiplying the lengths in the chart.

**Application ideas**

- Access panels
- Changeable signage
- Accessory attachment
- Changeable trim
- Document holder attachment
- Point of purchase displays

**Testing** Always test the suitability of the surface preparation and the adhesive selected for your application before use.  
More detailed product information is available from your 3M Representative.

**Shelf life** 12 months from date of despatch by 3M when stored in the original carton at 21°C and 50% relative humidity.

**Health and Safety Information** This product is an “article” and does not require a Material Safety Data Sheet. However MSDSs have been produced for most articles and may be accessed by going to [www.3m.com/msds](http://www.3m.com/msds) and entering the product number or 3M stock number. Alternatively, contact 3M Customer Services.

**Further information** Further information is available at [www.3m.com/adhesives](http://www.3m.com/adhesives) or [www.3m.com/reclosables](http://www.3m.com/reclosables) or by contacting 3M Customer Services on Free Phone 0800 200 713 or Free Fax 0800 508 980.

**Note** The user is responsible for determining whether the 3M product, surface preparation, and method of assembly are suitable for their particular purpose. Failure to determine the suitability of all factors involved in the application may result in bond failure.



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