



# Dual Lock™ Reclosable Fastener SJ3871

## Product Data Sheet

September 2022  
Supersedes: June 2018

### Product Description

3M™ Dual Lock™ Reclosable Fastener SJ3871 has a high strength modified acrylic adhesive.

### Key Features

- Designed to bond to many plastics (e.g. ABS)
- Stem density: 400 stems/in<sup>2</sup> = 62 stems/cm<sup>2</sup>
- Closure cycle life > 1 000
- Mushroom shaped stems snap in place to ensure fastener is engaged
- Good initial adhesion
- Quick and easy to install
- Durable

### Physical Properties

Type	SJ3871
Adhesive Type	Modified Acrylic Foam Adhesive
Tape Colour	Black
Backing	Black polypropylene
Stems	Black polypropylene
Release Liner	Red Polyolefin
Engaged Thickness acc ASTM D3652-01	6.1 mm

## Performance Characteristics

Type	SJ3871
<b>90 ° Peel adhesion to Stainless Steel</b> acc. to ASTM D3330-04, 90 ° peel angle @ RT, after 72h @ RT dwell	32 N/cm
<b>90 ° Peel adhesion to ABS</b> acc. to ASTM D3330-04, 90 ° peel angle @ RT, after 72h @ RT dwell	52 N/cm
<b>90 ° Peel adhesion to Stainless Steel</b> acc. to ASTM D3330-04, 90 ° peel angle @ RT, after 72h @ RT dwell and after 10d @ 38 °C & 98 % rH	40 N/cm
<b>Dyn. Tensile Engagement Strength</b> acc. to ASTM D897-08, tested @ RT	22 N/cm <sup>2</sup>
<b>Dyn. Tensile Disengagement Strength</b> acc. to ASTM D897-08, tested @ RT	42 N/cm <sup>2</sup>
<b>Dyn. Tensile Disengagement Strength</b> acc. to ASTM D897-08, tested @ 70 °C	20 N/cm <sup>2</sup>
<b>Dynamic Shear – Max. Force</b> acc to ASTM D3654-06 to stainless steel	16 N/cm <sup>2</sup>
<b>Static Shear Strength Stainless Steel</b> acc to ASTM D3654-06, after 72h @ RT dwell (Holds minimum 77.5 g/cm <sup>2</sup> for 10.000 minutes)	23 °C – 1000 g
<b>„T“ Peel (flexible to flexible)</b> acc. to ASTM D3330-04	3 N/cm
<b>Permanent static load</b> Dead load has to be supported accordingly in order to prevent excessive creep.	10 N/60 cm <sup>2</sup>

## Application Ideas

- Access panels on exercise equipment
- Attaching accessories to computer monitors
- Decorative trim attachment
- Kick plates on office partitions
- Fastening of headliner, instrument panel, control boxes and door panels

---

**Additional Performance Characteristics**

**Washing and Dry Cleaning:**

The adhesive present on these Dual Lock products typically makes them unsuitable to washing or dry cleaning processes

---

**Attachment Techniques**

Pressure Sensitive Adhesive attachment:

The fasteners and substrate surfaces should have equilibrated for a minimum of 1 hour at temperatures of 20 °C or greater before application. Generally, these adhesive backed fasteners should be applied to surfaces that are smooth, dry and free of oils, mould release agents or other surface contaminants.

The substrate surface should be cleaned to remove any surface contaminants with an appropriate cleaning method for the customer's substrate, type and quantity of surface contaminants that need to be removed.

**Note: Be sure to follow all government regulations and the manufacturer's precautions and directions for use when using solvents or other cleaning methods.**

After the substrate has been cleaned and dried, the liner is removed from the fastener's adhesive and without touching the adhesive, the fastener's adhesive is applied to the surface using light finger pressure. The fastener can then be rolled down, to increase contact of the adhesive with the substrate's surface, by one of two methods. Extra care must be exercised when rolling down 3M™ Dual Lock™ Reclosable Fasteners to prevent bending of the stems which can compromise the closure strength.

The pressure-sensitive adhesive bonds to the substrate on contact and parts can be handled immediately. Adhesive bond strength increases with time, pressure and temperature.

A minimum of one hour dwell is recommended before applying a load or disengaging assembled parts. Recommended time to achieve maximum bond strength is 24 hours.

---

**Storage & Shelf Life**

Store at 16 °C – 25 °C and 40 – 65 % relative humidity in its original box. The product can be stored up to 24 months after production.

**Note:** The shelf life may be shortened if the original packaging is not properly sealed or stored in an environment with high temperatures or humidity.

---

---

**For Additional  
Information**

To request additional product information or to arrange for sales assistance, call.....

Address correspondence to: 3M

---

**Automotive Disclaimer**

Automotive Applications: This product is an industrial product and has not been designed or tested for use in certain automotive applications, including, but not limited to, automotive electric powertrain battery or high voltage applications. This product does not fully adhere to typical automotive design or quality system requirements, such as IATF 16949 or VDA 6.3. This product may not be manufactured in an IATF certified facility and may not meet a Ppk of 1.33 for all properties. The product may not undergo an automotive production part approval process (PPAP). Customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's automotive application and for conducting incoming inspections before use of the product. Failure to do so may result in injury, death, and/or harm to property. No written or verbal statement, report, data or recommendation by 3M related to automotive use of the product shall have any force or effect unless in an agreement signed by the Technical Director of 3M's Automotive Division. Customer assumes all responsibility and risk if customer chooses to use this product in an automotive electric powertrain battery or high voltage application, and 3M will not be liable for any loss or damage arising from or related to the 3M product or customer's use of the product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity or recall costs), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability. In no event shall 3M be liable for any damages in excess of the purchase price paid for the product.

NOTWITHSTANDING ANY OTHER STATEMENT TO THE CONTRARY, 3M MAKES NO REPRESENTATIONS, WARRANTIES OR CONDITIONS WHATSOEVER, EXPRESS OR IMPLIED, REGARDING THE PRODUCT IF USED IN AN AUTOMOTIVE ELECTRIC POWERTRAIN BATTERY OR HIGH VOLTAGE APPLICATION, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY ON PERFORMANCE, LONGEVITY, SUITABILITY, COMPATIBILITY, OR INTEROPERABILITY, OR ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE.

---

**Important Notice**

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 or application. All questions of liability relating to this product are governed by the terms of the sale subject, where applicable, to the prevailing law.

---

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

---

3M is a trademark of the 3M Company.

**3M United Kingdom PLC**  
2M Centre, Cain Road, Bracknell  
RG12 8HT  
United Kingdom

**3M Ireland Ltd**  
The Iveagh Building, 3rd Floor  
The Park, Carrickmines 18  
Ireland

**3M Belgium bvba/sprl**  
Hermeslaan 7  
1831 Diegem  
Belgium

**3M Nederland B.V.**  
Molengraaffsingel 29  
2629 JD Delft  
The Netherlands

**3M Svenska AB**  
Herrjärva torg 4  
170 67 Solna  
Sweden

**3M a/s**  
Hannemanns Allé 53  
DK-2300 Copenhagen S.  
Denmark

**3M Norge AS**  
Tærudgata 16  
2004 Lillestrøm  
Norway

**Suomen 3M Oy**  
Keilaranta 6  
02150 Espoo  
Finland

**3M Eesti OÜ**  
Pärnu mnt. 158  
11317 Tallinn  
Estonia

**3M Latvia SIA**  
K.Ulmaņa gatve 5  
Rīga, LV-1004  
Latvia

**3M Lietuva UAB**  
A.Goštauto g. 40  
Vilnius LT- 03163  
Lithuania