



Dual Lock™ Reclosable Fastener SJ3871

Product Data Sheet

June 2018
Supersedes: New

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/in² = 62 stems/cm²
- 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
90 ° Peel adhesion to Stainless Steel acc. to ASTM D3330-04, 90 ° peel angle @ RT, after 72h @ RT dwell	32 N/cm
90 ° Peel adhesion to ABS acc. to ASTM D3330-04, 90 ° peel angle @ RT, after 72h @ RT dwell	52 N/cm
90 ° Peel adhesion to Stainless Steel acc. to ASTM D3330-04, 90 ° peel angle @ RT, after 72h @ RT dwell and after 10d @ 38 °C & 98 % rH	40 N/cm
Dyn. Tensile Engagement Strength acc. to ASTM D897-08, tested @ RT	22 N/cm ²
Dyn. Tensile Disengagement Strength acc. to ASTM D897-08, tested @ RT	42 N/cm ²
Dyn. Tensile Disengagement Strength acc. to ASTM D897-08, tested @ 70 °C	20 N/cm ²
Dynamic Shear – Max. Force acc to ASTM D3654-06 to stainless steel	16 N/cm ²
Static Shear Strength Stainless Steel acc to ASTM D3654-06, after 72h @ RT dwell (Holds minimum 77.5 g/cm ² for 10.000 minutes)	23 °C – 1000 g
„T“ Peel (flexible to flexible) acc. to ASTM D3330-04	3 N/cm
Permanent static load Dead load has to be supported accordingly in order to prevent excessive creep.	10 N/60 cm ²

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

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