



Dual Lock™ Reclosable Fastener SJ3542

Product Data Sheet

August 2018
Supersedes: New

Product Description

3M™ Dual Lock™ Reclosable Fastener SJ3542 contains a synthetic rubber based adhesive on the back of a black, polypropylene reclosable fastener.

Key Features

- Designed to bond to plastics (e.g. PE, ABS)
- Stem density: 170 stems/in² = 26 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	SJ3542
Adhesive Type	Synthetic Rubber
Tape Colour	Black
Backing	Black polypropylene
Stems	Black polypropylene
Release Liner	White Polyolefin
Engaged Thickness acc. ASTM D3652-01	5.6 mm

Performance Characteristics

Type	SJ3542
90 ° Peel adhesion to Stainless Steel acc. to ASTM D3330-04, 90 ° peel angle @ RT, after 72h @ RT dwell	22 N/cm
90 ° Peel adhesion to PE acc. to ASTM D3330-04, 90 ° peel angle @ RT, after 72h @ RT dwell	22 N/cm
90 ° Peel adhesion to Stainless Steel acc. to ISO ASTM D3330-04, 90 ° peel angle @ RT, after 72h @ RT dwell and after 10d @ 38 °C & 98 % rH	22 N/cm
90 ° Peel adhesion to PE acc. to ISO ASTM D3330-04, 90 ° peel angle @ RT, after 72h @ RT dwell and after 10d @ 38 °C & 98 % rH	22 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	38 N/cm ²
Dynamic Shear – Max. Force Acc. to ASTM D3654-06 to stainless steel	6 N/cm ²
Static Shear Strength Stainless Steel acc. to ASTM D3654-06, after 72h @ RT dwell (Holds minimum 155 g/cm ² for 10.000 minutes)	23°C – 1000 g
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)	49°C – 500 g
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, this adhesive backed fastener 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 18 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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