



Dual Lock™ Reclosable Fastener SJ3870

Product Data Sheet

January 2017
Supersedes: New

Product Description

3M™ Dual Lock™ Reclosable Fastener SJ3870 contains a modified acrylic adhesive. The fastener consists of continuous strips of polyolefine with 250 polyolefine stems per square inch having a mushroom shaped top.

Key Features

- Modified acrylic adhesive bonds to medium to high surface energy substrates (e.g. metal, ABS)
- Stem density: 250 stems/in²
- Closure cycle life > 1 000
- Mushroom shaped stems snap in place to ensure fastener is engaged
- Good aging performance and resistance against humidity
- Good initial adhesion
- Quick and easy to install
- Durable for indoor and outdoor applications

Physical Properties

Type	SJ3870
Adhesive Type	Modified acrylic adhesive
Tape Colour	Black
Backing	Black polypropylene
Stems	Black polypropylene
Release Liner	3M branded filmic liner
Engaged Thickness acc. DIN EN 1942: 2008	5.8 mm

Performance Characteristics

Type	SJ3870
90 ° Peel adhesion to Stainless Steel acc. to ISO 29862:2007, 90 ° peel angle @ RT, after 72h @ RT dwell	42 N/cm
90 ° Peel adhesion to PP acc. to ISO 29862:2007, 90 ° peel angle @ RT, after 72h @ RT dwell	3 N/cm
90 ° Peel adhesion to ABS acc. to ISO 29862:2007, 90 ° peel angle @ RT, after 72h @ RT dwell	53 N/cm
90 ° Peel adhesion to Stainless Steel acc. to ISO 29862:2007, 90 ° peel angle @ RT, after 72h @ RT dwell and after 10d @ 38 °C & 98 % rH	33 N/cm
Dyn. Tensile Engagement Strength acc. to ASTM D897-08, tested @ RT	113 N/in ²
Dyn. Tensile Disengagement Strength acc. to ASTM D897-08, tested @ RT	231 N/in ²
Dyn. Tensile Disengagement Strength acc. to ASTM D897-08, tested @ 70 °C	72 kPa
Dynamic Shear – Max. Force acc. ISO 29863:2007 to aluminium	83 kPa
Dynamic Shear – Elongation acc. ISO 29863:2007 to aluminium	69 %
Static Shear Strength Stainless Steel ISO 29863:2007, after 72h @ RT dwell (Holds minimum 77.5 g/cm ² for 10.000 minutes)	23 °C – 500 g 70 °C – 500 g
„T“ Peel (flexible to flexible) acc. ISO 29862:2007	50 N/cm

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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