

# Technical data sheet



Product: SJ4570

Manufacturer: 3M DEUTSCHLAND GMBH

Product group: KLEBEBAND

Article group: DUAL LOCK

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## 3M™ DUAL LOCK™ LOW PROFILE SJ4570

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Tewipack Uhl GmbH  
Industriestraße 15  
D-75382 Althengstett

Telephone:  
+49(0)7051/9297-0  
Fax:  
+49(0)7051/9297-99

E-Mail:  
info@tewipack.de  
Website:  
www.tewipack.de

Managing director:  
Alexander Uhl,  
Michael Uhl  
HRB 330424  
Amtsgericht  
Stuttgart

Bank details:  
Sparkasse  
Sindelfingen  
Pforzheim  
Calw  
BLZ 666 500  
85  
Konto 17 787

Commerzbank  
Sindelfingen  
BLZ 603 400 71  
Konto 8 001 166

Vereinigte  
Volksbank AG  
Böblingen  
BLZ 603 900 00  
Konto 80 089  
003

Postbank  
Stuttgart  
BLZ 600 100  
70  
Konto 146  
294 708



## Technical Data Sheet

### 3M™ Dual Lock™ Low Profile Reclosable Fastener SJ4570



[Product Details](#)



[Regulatory Info/SDS](#)

#### Product Description

3M™ Dual Lock™ Reclosable Fasteners are positive locking, hidden fasteners designed for use in a variety of attachment solutions. They consist of continuous strips of polyolefin stems with a mushroom shaped top protruding up from the backing. When snapped together the mushroom shaped caps interlock producing a strong reliable Fastener.

3M™ Dual Lock™ Reclosable Fastener SJ4570 Low Profile is designed for indoor use and low to medium temperature performance. This product offers temperature resistance up to 158°F and can be used with metals such as aluminum and stainless steel; as well as glass, many plastics (polypropylene, polyethylene, polycarbonate, ABS) powder coated paints and medium to low surface energy materials.

The Dual Lock Low Profile has one stem density of approximately 705 stems per square inch and they interlock to themselves. The low profile products are not intended to mate to the standard size Dual Lock.

There are a variety of pressure sensitive adhesives available with Dual Lock to cover most application needs. The pressure sensitive adhesive makes the Dual Lock easy to use, simply remove the liner, place the Dual Lock and apply firm consistent pressure to assure good contact with the substrate you are adhering. We also offer non-adhesive backed Dual Lock for applications where the PSA does not meet your needs.

#### Product Features

- Clear, low profile, polyolefin fastener is half the thickness of standard 3M™ Dual Lock™ Reclosable Fasteners and is self-mating
- Interlocking mushroom-shaped heads provide strong, reliable and durable fastening that can be opened and closed multiple times
- Low surface energy acrylic adhesive bonds well to a variety of substrates including metals, powder-coated paints and a broad range of plastics
- Strong fastener secures with an audible snap, verifying closure
- An alternative to screws and bolts, this hidden fastener provides a snug fit and smooth aesthetic appearance
- Features good temperature resistance of 158°F (70°C)
- Best suited for indoor use

#### General Information

This product is half the thickness of standard 3M™ Dual Lock™ Reclosable Fasteners, providing a low profile attachment. An alternative to screws and bolts, this hidden fastener provides a snug fit and smooth aesthetic appearance.

#### Technical Information Note

The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

#### Typical Physical Properties

Attribute Name	Test Condition	Value
Color		Clear
Backing Color		Clear
Adhesive Type		300LSE ( Clear Acrylic)
Weight		0.044 g/cm <sup>2</sup> (0.012 oz/in <sup>2</sup> )
Material		Polypropylene
Thickness	Unmated	1.63 mm (64.5 mil) <sup>1</sup>
Engaged Thickness		2.489 mm (98 mil) <sup>1</sup>
Liner		86# Polycoated Kraft
Liner Thickness		0.17 mm (6.5 mil)

<sup>1</sup> Thickness depends upon the amount of compression load on the pieces.

## Typical Performance Characteristics

Substrate: Low Profile to Low Profile

Attribute Name	Temperature	Backing	Value
90° Peel Adhesion	22 °C (72 °F)	Flexible from Rigid	2.9 N/cm (1.7 lb/in width) <sup>1</sup>
Overlap Shear Strength			28.2 N/cm <sup>2</sup> (41 lb/in <sup>2</sup> )
T-Peel Adhesion			0.9 N/cm (0.5 lb/in width) <sup>2</sup>
Dynamic Tensile (Disengage)			27.5 N/cm <sup>2</sup> (40 lb/in <sup>2</sup> )
Cleavage Strength			7.1 N/cm (4 lb/in width) <sup>3</sup>

<sup>1</sup> 12 in/min (300 mm/min)

<sup>2</sup> Flexible from Flexible

<sup>3</sup> Rigid backed from Rigid backed

Attribute Name	Substrate	Value
Long Term Temperature Resistance		70 °C (158 °F) <sup>1</sup>
Minimum Long Term Temperature Resistance		-29 °C (-20 °F) <sup>1</sup>
Cycle Life	Low Profile to Low Profile	150 <sup>2</sup>

<sup>1</sup> Long Term (day, weeks)

<sup>2</sup> Number of closures before losing 50% of original peel strength

## Design Considerations

- As a general rule, four square inches of fastener area per pound of static tensile or shear load to be supported is suggested as a starting point for evaluation. More or less area may be needed depending on specific conditions or end use applications.
- Whenever possible design one side of the Dual Lock reclosable fasteners to be larger than the mating side. This will allow for variability or mismatch in Dual lock alignment positions, and ensure 100% fastening area contact. Another approach would be to design two rectangular shaped fastener pieces so that they can be engaged in a cross web/perpendicular pattern (crossed).
- Dual Lock disengagement strength/performance is strongest in direct tensile. Peel/cleavage mode is where it is most easily removed.
- Final product performance depends upon a combination of factors: the substrate and its surface characteristics, the fastener selected, the application method and conditions, the time and environmental conditions required for the application. Because these factors are unique to each application, the user must evaluate Dual Lock and do any testing required to determine Dual Lock's suitability for the user's desired end use.

## Storage and Shelf Life

To obtain best performance, use this product within 24 months from date of manufacture.

## Automotive Disclaimer

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## **ISO Statement**

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3M  
Industrial Adhesives and Tapes Division  
3M Center, Building 225-3S-06  
St. Paul, MN 55144-1000  
800-362-3550

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