SNAPSHOOT
ENGINEERED FOR A SAFER TOMORROW

# 현장을 이해하고, 필요한 솔루션을 연결합니다.

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제품 제안부터 공급·시공·설치·교육까지




COMPANY INFORMATION

**스냅슛 (SNAPSHOOT)**

ADDRESS (15431) 경기도 안산시 단원구 풍전로 37-9 트리플렉스 301동 118호
TEL 0507-1374-9229
FAX 0504-481-6749
E-MAIL bkkim@snapshoot.co.kr

TECHNICAL DOCUMENTS

## 인증서 · 데이터시트 · 기술자료

제품의 규격과 성능, 인증 및 적용 조건을 확인하기 위한 자료입니다.

ABOUT SNAPSHOOT

### 제품 공급을 넘어, 현장에 맞는 해결책으로

스냅슛은 산업현장의 작업 환경과 요구 조건을 바탕으로
적합한 제품과 시스템을 제안합니다. 현장 실사를 통해 설치 조건을 확인하고,
공급부터 시공·설치 및 사용 교육까지 필요한 과정을 함께합니다.

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V-4 | English-US
**Last Revision Date:** August, 2025
**Supersedes:** June, 2025

# Technical Data Sheet

3M™ Extreme Sealing Tape 4410B+

## Product Description

3M™ Extreme Sealing Tapes are single-coated, pressure sensitive adhesive tapes that are designed for sealing applications. They feature a flexible TPO backing that easily conforms over screw heads, rivets, joints, splices, and other protrusions, providing reliable protection from water intrusion. 3M™ Extreme Sealing Tapes' acrylic adhesive chemistry allows for bonding to a variety of substrates while maintaining reliable durability.

## Product Features

- Black, 0.6 mm (0.025 in) thick tape designed for sealing applications.
- Sticks immediately after the application of pressure to metals, plastics, and other surfaces.
- Provides an immediate seal without the cure time or mess typically associated with liquid sealants.
- Features a linerless acrylic adhesive, enabling easier application with less waste.

## 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 | Value |
|---|---|
| Color | Black |
| Adhesive Type | Very Conformable Multi-Purpose Acrylic |
| Backing | TPO |
| Density | 820 kg/m³ (51 lb/ft³) |

| Attribute Name | Value |
|---|---|
| Total Tape Thickness | 0.6 mm (25 mil) |
| Adhesive Thickness | 0.5 mm (21 mil) |
| Backing Thickness | 0.1 mm (4 mil) |
| Thickness Tolerance | ±10 % |

## Typical Performance Characteristics

Substrate: Aluminum
Temperature: 23 °C (73 °F)
Dwell Time: 72 h

| Attribute Name | Test Method | Backing | Value |
|---|---|---|---|
| 90° Peel Adhesion | ASTM D3330 | 5 mil Aluminum Foil | 13.4 N/cm (7.7 lb/in) [1] |
| Normal Tensile | ASTM D897 | | 697.0 kPa (101.1 lb/in²) [2] |

[1] 300 mm/min (12 in/min)

[2] 6.45 cm² (1 in²), Jaw Speed 51 mm/min (2 in/min)

| Attribute Name | Test Method | Test Condition | Substrate | Value |
|---|---|---|---|---|
| Minimum Application Temperature | | | | 10 °C (50 °F) |

| Attribute Name | Test Method | Test Condition | Substrate | Value |
|---|---|---|---|---|
| Short Term Temperature Resistance | | | | 149 °C (300 °F) [1] |
| Long Term Temperature Resistance | ASTM D3654 | 500 g | Stainless Steel | 93 °C (200 °F) [2] |

[1] No change in room temperature dynamic shear properties following 4 hour conditioning at indicated temperature with 100 g/static load. (Represents minutes, hour in a process type temperature exposure).

[2] Maximum temperature where tape supports indicated load per 6.5cm² (1 in²) in static shear for 10,000 minutes.

## Handling/Application Information

### Application Techniques

**Surface Preparation:**
The first step to making a successful seal is to prepare the surface for bonding. Make sure that the bonding surface is clean of all contaminants. For most surfaces, cleaning with a mixture of isopropyl alcohol and water (50/50 or 70/30) is effective. If the substrate is contaminated with heavy oils or grease, a degreaser or strong solvent should be used to remove the oil. A final wipe of isopropyl alcohol and water should follow the degreasing step.
The following adhesion promoters and primers may be used to increase the bond strength of 3M™ Extreme Sealing Tape:
3M™ VHB™ Water-Based Promoter UV
3M™ Adhesion Promoter 111
3M™ Tape Primer 94
3M™ Universal Primer UV
Please refer to technical data sheets for application instructions and guidance surrounding the types of materials that these adhesion promoters and primers are effective on.

***Note:** When using solvents, be sure to follow the manufacturer's precautions and directions for use.

**Application of Pressure:**
Bond strength is dependent upon the amount of adhesive-to-surface contact developed. Firm application of pressure develops better adhesive contact and helps to improve bond strength. Good surface contact can be attained by applying approximately 100 kPa (15 psi) of pressure. This can generally be attained by hand or with the use of a handheld roller.

**Application Temperature:**
The ideal application temperature range (the temperature at which the tape is applied) for 3M™ Extreme Sealing Tape is 21°C to 38°C (70°F to 100°F). Pressure sensitive adhesives use viscous flow to achieve substrate contact. The tape generally reaches ultimate bond strength 72 hours after the application of pressure but provides an immediate seal. The minimum suggested application temperature for 3M™ Extreme Sealing Tape is 10°C (50°F).

**Tape Width:**
The tape should be wide enough to cover all potential intrusion paths. It is recommended to extend the tape at least 2.54 cm (1 in) beyond the intrusion path.

**Creating an Overlap Seam:**
It is often required to overlap 3M™ Extreme Sealing Tape onto itself. In this case, the TPO backing of the first piece of tape becomes the substrate that the second piece of tape will adhere to.

Surface Preparation: The TPO backing material should be cleaned with a 50/50 or 70/30 mixture of isopropyl alcohol and water. For optimal results, it is highly recommended that the TPO backing material be promoted/primed with 3M™ Adhesion Promoter 111, 3M™ Tape Primer 94, or 3M™ Universal Primer UVprior to overlapping. If promoting the TPO backing material with 3M™ Adhesion Promoter 111, cleaning prior to applying promoter may not be necessary. If priming the TPO backing material with either 3M™ Tape Primer 94 or 3M™ Universal Primer UV, you must clean with a mixture of isopropyl alcohol and water prior to applying primer.

Application of Pressure: Firm pressure must be applied to all points of overlap between the two tapes. This can generally be achieved by hand or with the use of a handheld roller.

## Storage and Shelf Life

This product has a shelf life of 24 months from the date of manufacture when stored in its original packaging at 4°C to 38°C (40°F to 100°F) and 0-95 % relative humidity. Optimum storage conditions are 22°C (72°F) and 50 % relative humidity.

## Available Sizes

| Attribute Name | Value |
|---|---|
| Core Size (ID) | 76.2 mm (3 in) |
| Maximum Available Width | 1219.2 mm (48 in) |
| Minimum Available Width | 6.4 mm (0.25 in) |
| Normal Slitting Tolerance | ±0.79 mm (±1/32 in) |
| Standard Roll Length | 16.5 m (18 yd) |

## Product Family

3M™ Extreme Sealing Tapes: 4410W+, 4410G+, and 4410B+

3M™ Extreme Sealing Tapes: 4411W+, 4411G+, and 4411B+

3M™ Extreme Sealing Tapes: 4412W+ and 4412G+

## Information

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## ISO Statement

This product was manufactured under a 3M quality system registered to ISO 9001 standards.

3M™ Industrial Adhesives and Tapes Division
3M Center, St. Paul, MN 55144-1000
3M.com/iatd

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