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.

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### 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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English-US

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**Supersedes:** June, 2024

# Technical Data Sheet

3M™ Double Coated Polyethylene Foam Tape 4496B

Product Details

Regulatory Info/SDS

## Product Description

3M™ Double Coated Polyethylene Foam Tapes 4496B combine a conformable closed cell foam with a high strength acrylic adhesive that provides good initial tack and offers high ultimate adhesion to a wide variety of surfaces.

## 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 |
|---|---|
| Foam Color | Black |
| Adhesive Type | 430 (Acrylic Adhesive) |
| Foam Density | 65 kg/m³ (4 lb/ft³) |
| Adhesive Carrier | Closed Cell Crosslinked Polyethylene Foam |

| Attribute Name | Value |
|---|---|
| Thickness Tolerance | 1.4 — 2 mm (53 — 80 mil) |
| Thickness: Nominal | 1.6 mm (62 mil) |
| Liner | Paper |
| Liner Thickness | 0.08 mm (3 mil) |
| Primary Liner Color | Tan |

## Typical Performance Characteristics

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

| Attribute Name | Test Method | Substrate | Backing | Value |
|---|---|---|---|---|
| 90° Peel Adhesion | ASTM D3330 | Stainless Steel | 5 mil Aluminum Foil | 14 N/cm (128 oz/in) [1] |
| Normal Tensile | ASTM D897 | Aluminum | | 275 kPa (40 lb/in²) [2] |

[1] 304 mm/min (12 in/min)

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

### Static Shear

Test Method: ASTM D3654

| Temperature | Value |
|---|---|
| 23 °C (73 °F) | 1,000 g [1] |
| 49 °C (120 °F) | 500 g [1] |
| 70 °C (158 °F) | 250 g [1] |

[1] 13 x 25 mm (0.5 x 1 in) sample area, test terminated at 10,000 minutes

| Attribute Name | Temperature | Value |
|---|---|---|
| Short Term Temperature Resistance | | 82 °C (180 °F) [1] |
| Long Term Temperature Resistance | | 70 °C (158 °F) [2] |
| Cold Flex | -30 °C (-20 °F) | No cracking when flexed around a 1/4 in (6.4 mm) mandrel. |

[1] Short Term (minutes, hour)

[2] Long Term (day, weeks)

Temperature: 23 °C (73 °F)

| Attribute Name | Test Method | Value |
|---|---|---|
| Overlap Shear Strength | ASTM D1002, ISO 4587 | 240 kPa (35 lb/in²) [1] |

[1] 6.45 cm² (1 in²), Jaw Speed 12.7 mm/min (0.5 in/min)

## Typical Environmental Performance

| Attribute Name | Value |
|---|---|
| Solvent Resistance | No apparent degradation when exposed to splash testing of typical hydrocarbon solvents.<br>(Splash testing cycle - 20 seconds submersion, 20 sec. air dry, 3 cycles) |
| UV Resistance | No apparent degradation when exposed for seven days in U.V. chamber. |

## Handling/Application Information

### Application Examples

• The foam construction makes these products ideal for many joining, mounting, gasketing, and sealing applications involving irregular surfaces.
• 3M™ Double Coated Polyethylene Foam Tapes 4492 and 4496 are formulated for more demanding indoor and moderate outdoor general purpose mounting and joining applications.
• Application ideas for these tapes include:
– Signs, Nameplates and Plaques
– Point of Purchase and other Displays
– Plastic Hooks, Racks and Dispensers
– Wire and Cable Clips
– Appliance, Display Case and Electronic Equipment Trim

### Application Techniques

• Bond strength is dependent upon the amount of adhesive-to-surface contact developed. Firm application pressure helps develop better adhesive contact and improve bond strength.
• To obtain optimum adhesion, the bonding surfaces must be clean, dry and well unified. Typical surface cleaning solvents are isopropyl alcohol and water (rubbing alcohol) or water. Note: Be sure to follow the manufacturer's precautions and directions for use when using cleaning solvents.
• Ideal tape application temperature range is 70°F to 100°F (21°C to 38°C). Initial tape application to surfaces at temperatures below 50°F (10°C) is not recommended because the adhesive becomes too firm to adhere readily. However, once properly applied, low temperature holding is generally satisfactory.

### Application Equipment

To apply adhesives in a wide web format, lamination equipment is required to ensure acceptable quality. To learn more about working with pressure-sensitive adhesives please refer to technical bulletin, Lamination Techniques for Converters of Laminating Adhesives (70-0704-1430-8).

For additional dispenser information, contact your local 3M sales representative, or the toll free 3M sales assistance number at 1-800-362-3550.

## Storage and Shelf Life

Store under normal conditions of 16° to 27°C (60° to 80°F) and 40 to 60% relative humidity in the original packaging, out of direct sunlight. For best performance, use this product within 24 months from date of manufacture.

## Available Sizes

| Attribute Name | Value |
|---|---|
| Available Width | 3.2 — 1219 mm (1/8 — 48 in) [1] |
| Maximum Length | 91.4 m (100 yd) |
| Normal Slitting Tolerance | ±0.8 mm (±1/32 in) |
| Standard Roll Length | 32.9 m (36 yd) |

[1] Slit rolls 3.2 mm (1/8 in) up to 13 mm (0.5 in) are only available in standard lengths.

## Automotive Disclaimer

**Select Automotive Applications:**
This product is an industrial product and has not been designed or tested for use in certain automotive applications, such as automotive electric powertrain battery or high voltage applications, which may require the product to be manufactured in a IATF certified facility, meet a Ppk of 1.33 for all properties, undergo an automotive production part approval process (PPAP), or fully adhere to automotive design or quality system requirements (e.g., IATF 16949 or VDA 6.3). Customer assumes all responsibility and risk if customer chooses to use this product in these applications.

## Information

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## ISO Statement

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

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3M Center, St. Paul, MN 55144-1000
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