SNAPSHOOT
ENGINEERED FOR A SAFER TOMORROW

# 현장을 이해하고, 필요한 솔루션을 연결합니다.

산업안전 · 추락방지 시스템
산업용 소재 · 건축자재
제품 제안부터 공급·시공·설치·교육까지




COMPANY INFORMATION

**스냅슛 (SNAPSHOOT)**

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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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홈페이지 바로가기 →
문서 라이브러리 바로가기 →
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본 페이지는 스냅슛의 자료 제공 안내용 표지입니다. 첨부된 인증서 및 기술자료의 발행 주체, 인증 대상과 적용 범위는 해당 원문을 기준으로 확인해 주세요.

English-US

**Last Revision Date:** September, 2024

**Supersedes:** June, 2024

# Technical Data Sheet

3M™ Silicone /Acrylic Double Coated Tape 9699

Product Details

Regulatory Info/SDS

## Product Description

3M™ Differential Double Coated Tape 9699 features a firm, silicone pressure sensitive adhesive coated on one side of a polyester film carrier and a high performance acrylic pressure sensitive adhesive coated on the other side of the carrier. The silicone adhesive provides good bond toSilicone Rubber and strong holding power to various silicone surfaces. The acrylic adhesive offers good shear resistance and adhesion to a variety of surfaces. The polyester carrier provides dimensional stability and improved handling with ease of die cutting and lamination.
This double coated differential adhesive tape product offers a unique solution for wide web lamination of silicone materials (e.g. foams, rubber, films, etc.) to many other surfaces, including low surface energy materials.

## 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 Method | Test Condition | Value |
|---|---|---|---|
| Adhesive Type | | Faceside | Silicone [1] |
| Adhesive Carrier | | | PET (Polyester) |
| Adhesive Type | | Backside | Acrylic [2] |
| Adhesive Thickness | | Faceside | 0.04 mm (1.6 mil) [1] |
| Carrier Thickness | | | 0.025 mm (1 mil) |
| Adhesive Thickness | | Backside | 0.05 mm (2 mil) [2] |
| Total Tape Thickness | ASTM D3652 | | 0.116 mm (4.6 mil) |
| Primary Liner Type | | | Polycoated Kraft [3] |
| Primary Liner Thickness | | | 0.05 mm (2 mil) |
| Primary Liner Color | | | White |
| Secondary Liner Type | | | PET [3] |
| Secondary Liner Thickness | | | 0.09 mm (3.5 mil) |
| Secondary Liner Color | | | Clear |

[1] Faceside adhesive is on the interior of the roll, exposed when unwound and liner removed.

[2] Backside adhesive is on the exterior of the roll, exposed when liner is removed.

[3] Inner liner is primary (stays with die-cut part); Outer liner is secondary (removed first)

## Typical Performance Characteristics

### 90° Peel Adhesion

Backing: 2 mil Aluminum Foil
Test Method: ASTM D3330

| Dwell Time | Temperature | Test Condition | Substrate | Value |
|---|---|---|---|---|
| 20 min | 23 °C (73 °F) | Silicone Side | Silicone Rubber | 3.8 N/cm (35 oz/in) [1] |
| 20 min | 23 °C (73 °F) | Silicone Side | Stainless Steel | 4.4 N/cm (40 oz/in) [1] |
| 20 min | 23 °C (73 °F) | Acrylic Side | Stainless Steel | 8.2 N/cm (75 oz/in) [1] |
| 72 h | 23 °C (73 °F) | Acrylic Side | ABS | 7.7 N/cm (70 oz/in) [1] |
| 72 h | 23 °C (73 °F) | Silicone Side | ABS | 4.2 N/cm (38 oz/in) [1] |

| Dwell Time | Temperature | Test Condition | Substrate | Value |
|---|---|---|---|---|
| 72 h | 23 °C (73 °F) | Acrylic Side | Polycarbonate (PC) | 11.5 N/cm (105 oz/in) [1] |
| 72 h | 23 °C (73 °F) | Silicone Side | Polycarbonate (PC) | 4.7 N/cm (43 oz/in) [1] |
| 72 h | 23 °C (73 °F) | Acrylic Side | Polypropylene (PP) | 4.9 N/cm (45 oz/in) [1] |
| 72 h | 23 °C (73 °F) | Silicone Side | Polypropylene (PP) | 4.9 N/cm (45 oz/in) [1] |
| 72 h | 23 °C (73 °F) | Acrylic Side | Stainless Steel | 9.5 N/cm (87 oz/in) [1] |
| 72 h | 70 °C (158 °F) | Silicone Side | Silicone Rubber | 5.7 N/cm (52 oz/in) [1] |
| 72 h | 70 °C (158 °F) | Acrylic Side | Stainless Steel | 11 N/cm (102 oz/in) [1] |
| 72 h | 70 °C (158 °F) | Silicone Side | Stainless Steel | 5.6 N/cm (51 oz/in) [1] |
| 72 h | 23 °C (73 °F) | Silicone Side | Stainless Steel | 5.4 N/cm (49 oz/in) [1] |

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

### Static Shear

Dwell Time: 10 min
Test Method: ASTM D3654

| Temperature | Test Condition | Value |
|---|---|---|
| 23 °C (73 °F) | 1000 g | 10,000 min [1] |
| 70 °C (158 °F) | | 10,000 min [1] |

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

| Attribute Name | Value |
|---|---|
| Short Term Temperature Resistance | 149 °C (300 °F) [1] |
| Long Term Temperature Resistance | 93 °C (200 °F) [2] |

[1] Short Term (minutes, hour)

[2] Long Term (day, weeks)

## Typical Environmental Characteristics

### Environmental Resistance

**UV Resistance:**When properly applied, nameplates and decorative trim parts are not adversely affected by outdoor exposure.

**Chemical Resistance:**When properly applied, nameplate and decorative trim parts will hold securely after exposure to numerous chemicals including oil, mild acids and alkalis.

Bond Build-up: The bond strength of 3M™ Adhesive 9699 increases as a function of time and temperature.

Temperature/Heat Resistance: Adhesive 9699 is usable for short periods (minutes, hours) at temperatures up to 350°F (177°C) and for intermittent longer periods (days, weeks) up to 250°F (121°C).

**Lower Temperature Service Limit:**-40°F (-40°C).

## Handling/Application Information

### Application Examples

• Silicone gasket bonding
• AttachingSilicone Rubber to other substrates.
• Attaching silicone foam to other substrates
• Bonding dissimilar materials

## 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 6 months from date of manufacture.

## Available Sizes

| Attribute Name | Value |
|---|---|
| Core Size (ID) | 76.2 mm (3 in) |

## Available Sizes - Detailed

36" x 60 yds
36" x 180 yds
38" x 180 yds

## Recognition/Certification

**TSCA:**This product is defined as an article under the Toxic Substances Control Act and therefore, it is exempt from inventory listing requirements

**MSDS:**3M has not prepared a MSDS for this product which is not subjected to the MSDS requirements of the Occupational Safety and Health Administration's Hazard Communication Standard, 29 C.F.R.1910.1200(b)(6)(v). When used under reasonable conditions or in accordance with the 3M directions for use, this product should not present a health and safety hazard. However, use or processing of the product in a manner not in accordance with the directions for use may affect its performance and present potential health and safety hazards.

**UL:**These products have been recognized by Underwriters Laboratories, Inc. under Ul 746C and UL 969. For more information on the UL Certification, please visit the website at http://www.3M.com/converter, select UL Recognized Materials, then select the specific product area.

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## 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.

## For Additional Information

To request additional product information or to arrange for sales assistance, call toll free 1-800-362-3550 or visit www.3M.com.

3M™ Industrial Adhesives and Tapes Division
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