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

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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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산업안전 보호구

전신형 안전대 · 랜야드 · 안전블록
작업 환경에 맞춘 개인보호구

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산업용 테이프 · 접착제 · 기능성 소재
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홈페이지 바로가기 →
문서 라이브러리 바로가기 →
시공사례 바로가기 →
문의하기 →

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



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English-US

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Supersedes: June, 2024

Technical Data Sheet

3M™ Double Coated Tape 9731-100

Product Details

Regulatory Info/SDS

Product Description

3M™ Double Coated Tape 9731-100 features 3M™ High Performance Acrylic Adhesive 350 on the acrylic adhesive side which provides a combination of high wet grab and initial adhesion to a wide variety of materials including LSE plastics. This tape features a silicone adhesive on the other side which provides adhesion to many difficult to bond to substrates including silicone rubbers and low surface energy(LSE) plastics.

Product Features

• Silicone adhesive provides good bond to silicone rubber, strong holding power to various silicone surfaces, good temperature performance and good solvent resistance. • 3M™ Adhesive 350 provides very high adhesion to a wide variety of materials, excellent shear holding power, high temperature resistance and excellent UV resistance. • A thin polyester carrier provides dimensional stability and improved handling with ease of die cutting and lamination compared to adhesive transfer tapes.

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	350 Acrylic Adhesive [1]
Adhesive Type		Backside	Silicone Adhesive [2]
Adhesive Carrier			Clear PET (Polyester)
Adhesive Thickness		Faceside	0.053 mm (2.1 mil) [1]
Adhesive Thickness		Backside	0.033 mm (1.3 mil) [2]
Total Tape Thickness	ASTM D3652		0.1 mm (4 mil)
Carrier Thickness			0.014 mm (0.56 mil)

[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.

Attribute Name	Value
Primary Liner Type	58# Polycoated Kraft [1]
Secondary Liner Type	Fluoropolymer non-Silicone [1]
Primary Liner Thickness	0.074 mm (2.9 mil)
Secondary Liner Thickness	0.107 mm (4.2 mil)
Primary Liner Color	Tan
Secondary Liner Color	Clear

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

Typical Performance Characteristics

180° Peel Adhesion

Backing: 2 mil Aluminum Foil
Test Method: ASTM D3330

Dwell Time	Temperature	Test Condition	Substrate	Value
15 min	23 °C (73 °F)	Silicone Side	Stainless Steel	3,59 N/cm (32.8 oz/in) [1]
15 min	23 °C (73 °F)	Acrylic Side	Stainless Steel	7,56 N/cm (69.1 oz/in) [1]
72 h	23 °C (73 °F)	Acrylic Side	ABS	7,38 N/cm (67.4 oz/in) [1]
72 h	23 °C (73 °F)	Acrylic Side	Polycarbonate (PC)	7,76 N/cm (70.9 oz/in) [1]
72 h	23 °C (73 °F)	Acrylic Side	Polypropylene (PP)	7,02 N/cm (64.1 oz/in) [1]
72 h	23 °C (73 °F)	Silicone Side	Stainless Steel	3,74 N/cm (34.2 oz/in) [1]
72 h	23 °C (73 °F)	Acrylic Side	Stainless Steel	7,91 N/cm (72.3 oz/in) [1]
72 h	23 °C (73 °F)	Silicone Side	ABS	3,57 N/cm (32.6 oz/in) [1]
72 h	23 °C (73 °F)	Silicone Side	Polycarbonate (PC)	3,61 N/cm (33 oz/in) [1]
72 h	23 °C (73 °F)	Silicone Side	Polypropylene (PP)	3.71 N/cm (33.9 oz/in) [1]
72 h	70 °C (158 °F)	Silicone Side	Stainless Steel	4,02 N/cm (36.7 oz/in) [1]
72 h	70 °C (158 °F)	Acrylic Side	Stainless Steel	8,61 N/cm (78.7 oz/in) [1]

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

Attribute Name	Value
Short Term Temperature Resistance	177 °C (350 °F) [1]
Long Term Temperature Resistance	93 °C (200 °F) [2]

[1] Short Term (minutes, hour)
[2] Long Term (day, weeks)

Electrical and Thermal Properties

Attribute Name	Test Method	Temperature	Test Condition	Value
Dielectric Strength	ASTM D1000			8,000 V [1]
Surface Resistivity (350 Acrylic)	ASTM D257	23 °C (73 °F)	Acrylic Side	7.4 x 10^{15} Ω-cm [2]
Surface Resistivity (Silicone)	ASTM D257	23 °C (73 °F)		2.6 x 10^{15} Ω-cm [3]
Volume Resistivity	ASTM D257	23 °C (73 °F)		3.4 x 10^{15} Ω-cm

[1] RMS Voltage/Thickness
[2] 350 Acrylic
[3] Silicone

Handling/Application Information

Application Examples

- Bonding dissimilar materials.
- Silicone gasket bonding.
- Bond silicone rubber materials to other substrates.

Application Techniques

Bond strength is dependent upon the amount of adhesive-to-surface contact developed. Firm application pressure helps develop better adhesive contact and improves bond strength.
To obtain optimum adhesion, the bonding surfaces must be clean, dry and well unified. Some typical surface cleaning solvents are isopropyl alcohol or acetone.

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.

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 18 months from date of manufacture.

Recognition/Certification

MSDS:3M has not prepared a MSDS for these products which are not subject 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, these products should not present a health and safety hazard. However, use or processing of these products in a manner not in accordance with the directions for use may affect their performance and present potential health and safety hazards.

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ISO Statement

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

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