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.

추락방지 시스템

안전대부착설비 · 수평·수직 라이프라인
레일 시스템 · 리지드 포스트

밀폐공간 진입·구조 솔루션

데빗암 · 삼각대 · 구조용 윈치
윈치 안전블록 · 구조장비

산업안전 보호구

전신형 안전대 · 랜야드 · 안전블록
작업 환경에 맞춘 개인보호구

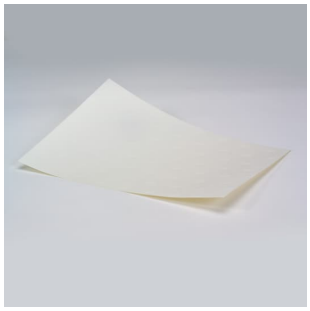
산업용 소재·건축자재

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홈페이지 바로가기 →
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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

Last Revision Date: April, 2025

Supersedes: September, 2024

Technical Data Sheet

3M™ Membrane Switch Product with Adhesive 200MP 7995MP

Product Details

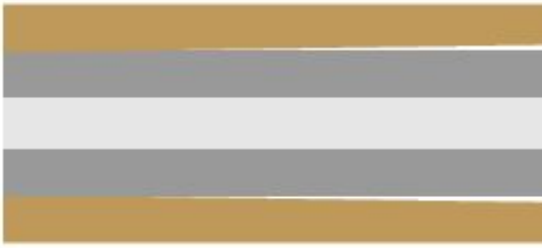
Regulatory Info/SDS

Product Description

3M™ High Performance Acrylic Adhesive 200MP is a popular choice and industry standard, for graphic attachment and general industrial joining applications. It provides outstanding adhesion to metal and high surface energy plastics. This adhesive provides some initial repositionability for placement accuracy when bonding to plastics. It also performs well after exposure to humidity and hot/cold cycles and provides the assurance the switch will perform through difficult environmental conditions and millions of actuations.

Product Features

• The High Performance Acrylic Adhesive 200MP offers excellent short-term heat resistance and will performan at temperatures up to 400ºF (204ºC) • The 200MP adhesive provides high resistance to solvents and humidity • The 2 mil nominal adhesive tape delivers excelent shear strength to metal surfaces • 3M Membrane Switch products use the 200MP adhesive, which provides long lasting membrance switches • 3M™ Double Coated Membrane Switch Spacers feature 2.0 mil adhesive layer for industry-standard, high-performance requirements



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	Value
Adhesive Type		200MP Acrylic
Adhesive Carrier		Polyester Film (PET)
Carrier Thickness		0.08 mm (3 mil)
Total Tape Thickness	ASTM D3652	0.05 mm (2 mil)
Liner Print		200MP
Liner		94# Polycoated Kraft Paper (PCK)
Liner Thickness		0.18 mm (7 mil)

Typical Performance Characteristics

90° Peel Adhesion

Dwell Time: 72 h
Backing: 2 mil PET
Test Method: ASTM D3330

Temperature	Substrate	Value
23 °C (73 °F)	Aluminum	9.2 N/cm (84 oz/in) [1]
23 °C (73 °F)	PET	6.9 N/cm (63 oz/in) [1]

Temperature	Substrate	Value
23 °C (73 °F)	Polycarbonate (PC)	7 N/cm (64 oz/in) [1]
23 °C (73 °F)	Stainless Steel	8 N/cm (73 oz/in) [1]
70 °C (158 °F)	Aluminum	20.4 N/cm (186 oz/in) [1]
70 °C (158 °F)	PET	21.3 N/cm (195 oz/in) [1]
70 °C (158 °F)	Polycarbonate (PC)	16.1 N/cm (147 oz/in) [1]
70 °C (158 °F)	Stainless Steel	16.2 N/cm (148 oz/in) [1]

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

Substrate: Stainless Steel
Backing: 2 mil PET

Attribute Name	Test Method	Temperature	Test Condition	Value
Static Shear	ASTM D3654	23 °C (73 °F)	1000 g	10,000+ min [1]
Static Shear	ASTM D3654	70 °C (158 °F)	500 g	10,000+ min [1]
Tensile Strength	ASTM D2370			11810 N/cm (6749 lb/in)

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

Humidity Resistance – High humidity has a minimal effect on adhesive performance. Bond strength shows no significant reduction after exposure for 7 days at 90ºF (32ºC) and 90% relative humidity.

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

Water Resistance – Immersion in water has no appreciable effect on the bond strength. After 100 hours at room temperature, the high bond strength is maintained.

Temperature Cycling Resistance – High bond strength is maintained after cycling four times through:
4 hours at 158ºF (70ºC)
4 hours at -20ºF (-29ºC)
4 hours at 73ºF (22ºC)

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™ High Performance Acrylic Adhesive increases as a function of time and temperature as the adhesive further wets the surface and reaches maximum bond strength after 72 hours at room temperature.

Temperature/Heat Resistance: 3M™ High Performance Acrylic Adhesive on polyester carriers is usable for short periods (minutes, hours) at temperatures up to300 ºF (149ºC) and for intermittent longer periods (days, weeks) up to 250ºF (121ºC).

Lower Temperature Service Limit:-40ºF (-40ºC).

Electrical and Thermal Properties

Attribute Name	Test Method	Temperature	Test Condition	Value
Coefficient of Thermal Expansion	ASTM D696		First Heat (125 ~ 175 °C)	3.9 x 10^{-4} m/m/°C
Surface Resistivity	ASTM D257	23 °C (73 °F)		>5.6 x 10^{16} Ω

Attribute Name	Test Method	Temperature	Test Condition	Value
Dissipation Factor	ASTM D150	23 °C (73 °F)		0.009
Dielectric Strength	ASTM D149			66.9 [1]
Insulation Resistance	Mil-I-46058C		100 VDC, 60 sec	9.4 x 10^{12} Ω
Volume Resistivity	ASTM D257	23 °C (73 °F)		3.3 x 10^{15} Ω-cm

[1] Short time method (air)

Handling/Application Information

Application Examples

• 3M™ Single Coated Membrane Switch Spacers are ideal for circuit layers, metal dome placement and lead protection

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.

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.

3M™ Industrial Adhesives and Tapes Division
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3M.com/iatd

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