SNAPSHOOT
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# 현장을 이해하고, 필요한 솔루션을 연결합니다.

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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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# Technical Data Sheet

## 3M™ Membrane Switch Product with Adhesive 200MP 9045MP

Additional Info

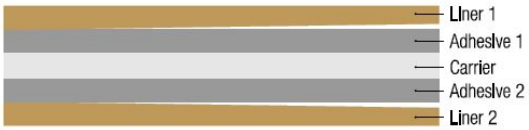
Regulatory Info/SDS

## 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 excellent 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 | Test Condition | Value |
|---|---|---|---|
| Adhesive Type | | | 200MP Acrylic |
| Adhesive Carrier | | | Polyester Film (PET) |
| Adhesive Thickness | | Faceside | 0.05 mm (2 mil) [1] |
| Carrier Thickness | | | 0.03 mm (1 mil) |
| Adhesive Thickness | | Backside | 0.05 mm (2 mil) [2] |
| Total Tape Thickness | ASTM D3652 | | 0.13 mm (5 mil) |
| Liner Print | | | White 3M |
| Primary Liner Type | | | 87# Polycoated Kraft Paper (PCK) [3] |
| Secondary Liner Type | | | 87# Polycoated Kraft Paper (PCK) [3] |
| Primary Liner Thickness | | | 0.16 mm (6.5 mil) |
| Secondary Liner Thickness | | | 0.16 mm (6.5 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.
[3] Inner liner is primary (stays with die-cut part); Outer liner is secondary (removed first)

## Typical Performance Characteristics

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

| Attribute Name | Temperature | Substrate | Value |
|---|---|---|---|
| 90° Peel Adhesion | 23 °C (73 °F) | Stainless Steel | 11.6 N/cm (106 oz/in) [1] |
| 90° Peel Adhesion | 70 °C (158 °F) | Stainless Steel | 12.4 N/cm (113 oz/in) [1] |
| 180° Peel Adhesion | 23 °C (73 °F) | Stainless Steel | 11.4 N/cm (104 oz/in) [1] |
| 90° Peel Adhesion | 23 °C (73 °F) | Aluminum | 12.5 N/cm (114 oz/in) [1] |
| 90° Peel Adhesion | 23 °C (73 °F) | Polyester (PET) | 5.0 N/cm (46 oz/in) [1] |
| 90° Peel Adhesion | 23 °C (73 °F) | Polycarbonate (PC) | 9.5 N/cm (87 oz/in) [1] |

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

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

| Attribute Name | Test Method | Value |
|---|---|---|
| Overlap Shear Strength | ASTM D1002, ISO 4587 | 2.16 MPa (313 lb/in²) [1] |

[1] Pressure was obtained via a Mechanical Press set at 138 kPa (20 psi) for 15 seconds on 25 x 25 mm (1 x 1 in) sample Crosshead speed 300 mm/min (12 in/min).

### Static Shear

Substrate: Stainless Steel
Dwell Time: 72 h
Backing: 2 mil Aluminum Foil
Test Method: ASTM D3654

| Temperature | Test Condition | Value |
|---|---|---|
| 23 °C (73 °F) | 1000 g | 10,000 min [1] |
| 70 °C (158 °F) | 500 g | 10,000 [1] |

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

Substrate: Stainless Steel
Temperature: 23 °C (73 °F)
Dwell Time: 72 h
Backing: 2 mil Aluminum Foil
Test Method: ASTM D3654

| Attribute Name | Environmental Condition | Test Condition | Value |
|---|---|---|---|
| Long Term Temperature Resistance | 149 °C (300 °F) | 500 g wt for at least 10,000 min | 10,000 min [1] |
| Short Term Temperature Resistance | 204 °C (400 °F) | 500 g wt for at least 60 min | 500 min [1] |

[1] 6.5 cm² (1 in²) Sample area

## 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 90°F (32°C) 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 158°F (70°C)
4 hours at -20°F (-29°C)
16 hours at 73°F (22°C)

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 to 300 °F (149°C) and for intermittent longer periods (days, weeks) up to 250°F (121°C).
**Lower Temperature Service Limit:** -40°F (-40°C).

## Electrical and Thermal Properties

| Attribute Name | Test Method | Temperature | Test Condition | Value |
|---|---|---|---|---|
| Coefficient of Thermal Expansion | ASTM D696 | | First Heat (125 ~ 175 °C) | 4.2 x $10^{-1}$ m/m/°C |
| Thermal Conductivity | ASTM C518 | 43 °C (109 °F) | | 0.18 W/m/K [1] |

[1] results listed are at 43 °C (109° F)

| Attribute Name | Test Method | Temperature | Value |
|---|---|---|---|
| Dissipation Factor | ASTM D150 | 23 °C (73 °F) | 0.019 |
| Dielectric Strength | ASTM D149 | | 53.3 [1] |
| Volume Resistivity | ASTM D257 | 23 °C (73 °F) | 2.7 x $10^{14}$ Ω-cm |
| Breakdown Voltage | | | 7,200 V |

[1] Short time method (air)

## Handling/Application Information

### Application Examples

• 3M™ Double Coated Membrane Switch Spacers are ideal for circuit separation

## 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.

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## ISO Statement

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