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

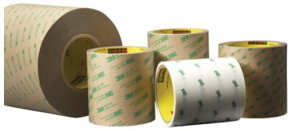
산업용 소재·건축자재

산업용 테이프 · 접착제 · 기능성 소재
구조용 스크류 · 목조건축 자재

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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.



Technical Data Sheet

3M™ Adhesive Transfer Tape 9445

Additional Info

Regulatory Info/SDS

Product Description

3M™ Adhesive Transfer Tape 9445 with 3M™ Adhesive 350 is a modified acrylic adhesive ideal for very high-bond strength to many surfaces. It offers excellent shear and peel resistance even at elevated temperatures. This tape is reinforced with discrete glass fibers, which limits elongation, provides structure and is important for roll stability in narrow widths and resists edge oozing. 3M™ 9445 is designed for temperature exposure to 177 °C (350 °F) for short periods of time and up to 149 °C (300 °F) over long time frames.

Product Features

- Intended for metal, high surface energy and low surface energy plastics.
- Designed for chemical resistance and shear and peel strength even at elevated temperatures.
- Reinforced with (or contains) discrete glass fibers, which limits elongation, provide structure and is important for roll stability in narrow widths and resists edge oozing.
- Low odor for improved working environment.
- Additional constructions and thicknesses available using 350 adhesive.

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		350 Fibered Acrylic
Total Tape Thickness	ASTM D3652	0.127 mm (5 mil)
Liner		54# Super Calendared Kraft paper
Liner Thickness		0.08 mm (3.2 mil)
Primary Liner Color		Tan

Typical Performance Characteristics

180° Peel Adhesion

Backing: 2 mil Aluminum Foil
Test Method: ASTM D3330

Dwell Time	Temperature	Environmental Condition	Substrate	Value
20 min	23 °C (73 °F)		Stainless Steel	13.3 N/cm (121 oz/in) [1]
72 h	23 °C (73 °F)		Stainless Steel	14.9 N/cm (136 oz/in) [1]
72 h	23 °C (73 °F)		ABS	14.1 N/cm (129 oz/in) [1]
72 h	23 °C (73 °F)		Polypropylene (PP)	16.3 N/cm (149 oz/in) [1]

Dwell Time	Temperature	Environmental Condition	Substrate	Value
72 h	70 °C (158 °F)		Stainless Steel	19.3 N/cm (176 oz/in) [1]
72 h	32 °C (90 °F)	90 %RH	Stainless Steel	17.3 N/cm (158 oz/in) [1]

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

90° Peel Adhesion

Backing: 2 mil Aluminum Foil
Test Method: ASTM D3330

Dwell Time	Temperature	Substrate	Value
20 min	23 °C (73 °F)	Stainless Steel	9.9 N/cm (90 oz/in) [1]
72 h	23 °C (73 °F)	Stainless Steel	11.0 N/cm (101 oz/in) [1]
72 h	23 °C (73 °F)	ABS	9.5 N/cm (85 oz/in) [1]
72 h	23 °C (73 °F)	Polypropylene (PP)	9.1 N/cm (83 oz/in) [1]
72 h	70 °C (158 °F)	Stainless Steel	14.4 N/cm (132 oz/in) [1]

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

Substrate: Stainless Steel
Test Condition: 500 g
Test Method: ASTM D3654

Attribute Name	Value
Long Term Temperature Resistance	149 °C (300 °F) [1]
Short Term Temperature Resistance	177 °C (350 °F) [2]

[1] Maximum temperature where tape supports indicated load per 6.5cm² (1 in²) in static shear for 10,000 minutes.
[2] Maximum temperature where tape supports indicated load per 6.5cm² (1 in²) in static shear for 60 minutes.

Substrate: Stainless Steel
Temperature: 23 °C (73 °F)
Test Condition: 1000 g
Dwell Time: 72 h
Backing: 2 mil Aluminum Foil

Attribute Name	Test Method	Value
Static Shear	ASTM D3654	10,000 min [1]

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

Shear Adhesion Failure Test - SAFT

Substrate: Stainless Steel
Dwell Time: 72 h
Backing: 2 mil Aluminum Foil
Test Method: PSTC 17

Test Condition	Value
500 g	205 °C (401 °F) [1]
1000 g	122 °C (251 °F) [1]

[1] 25 x 25 mm (1 in x 1 in) Area Contact

Typical Environmental Performance

90° Peel Adhesion

Substrate: Stainless Steel
Backing: 2 mil Aluminum Foil
Test Method: ASTM D3330

Dwell Time	Temperature	Environmental Condition	Value
72 h	23 °C (73 °F)	Control	100 % [1]
1 h	23 °C (73 °F)	Isopropyl alcohol	89 % of control [1]
1 h	23 °C (73 °F)	Acetone	73 % of control [1]
1 h	23 °C (73 °F)	Gasoline	75 % of control [1]
4 h	23 °C (73 °F)	Weak Acid (pH 4)	89 % of control [1]
4 h	23 °C (73 °F)	Weak Base (pH 10)	87 % of control [1]
72 h	23 °C (73 °F)	Water	102 % of control [1]
72 h	23 °C (73 °F)	Salt Water (5% by weight)	80 % of control [1]
72 h	32 °C (90 °F)	90 %RH	106 % of control [1]
72 h	49 °C (120 °F)	Oil (10W30)	146 % of control [1]
96 h		Temperature Cycling: 4 Hours at 70 °C (158 °F). 4 Hours at -29 °C (-20 °F). 16 Hours at 23 °C (73 °F). Repeat four times	140 % of control [1]

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

Electrical and Thermal Properties

ASTM - E1356
(Reporting Midpoint Tg)

Attribute Name	Value
Glass Transition Temperature (Tg)	-28 °C [1]

[1] Glass Transition Temperature (Tg) determined using DSC Analyzer with a heating rate of 10 °C per minute. Second heat values given.

Handling/Application Information

Application Examples

Ideal adhesive application temperature range is 21 °C to 38 °C (70 °F to 100 °F). Initial application to surfaces at temperatures below 10 °C (50 °F) is not recommended for most pressure sensitive adhesives because the adhesive becomes too firm to adhere readily. However, once properly applied, low temperature holding is satisfactory. For more specific information, contact our toll free 3M sales assistance number at 1-800-362-3550.
0.05 mm (2 mil) thick tapes may generally be used for joining materials that are relatively smooth, thin and have low residual stress. For materials with a rough or textured surface, the thicker adhesive film of the 0.127 mm (5 mil) tapes would be more appropriate for evaluation.

Application Techniques

For maximum bond strength the surface should be thoroughly cleaned and dried. Typical cleaning solvents are heptane or isopropyl alcohol. Consult manufacturer's Material Safety Data Sheet for proper handling and storage instructions. Bond strength can also be improved with firm application pressure and moderate heat (for metal surfaces only), from 38 °C (100 °F) to 54 °C (130 °F), promoting intimate contact with the bonding surfaces.

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
Core Size (ID)	76.2 mm (3 in)
Maximum Available Width	1220 mm (48 in)
Minimum Available Width	12.7 mm (0.50 in)
Normal Slitting Tolerance	± 0.8 mm (± 1/32 in)
Note	Subject to Minimum Order Requirements

Recognition/Certification

TSCA: These products are defined as articles under the Toxic Substances Control Act and therefore, are exempt from inventory listing requirements.
MSDS: These products 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.
UL: Tapes 9442 and 9445 have been recognized by Underwriters Laboratories Inc. under Standard UL 969 Marking and Labeling in File MH26206. Tapes 9482PC and 9485PC have been recognized by Underwriters Laboratories Inc. under Standard UL
746C Polymeric Adhesives Systems, Electrical Equipment Component in File MH17478. If you require official recognition of any 350 adhesive under either UL 969 or UL 746C, please contact 3M-customer service at 1-800-362-3550.
For more information on the UL Certification, please visit the website at http://www.3m.com/converter, select UL Recognized Materials, and 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/converter.

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

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