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.

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 →

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Technical Data Sheet

3M™ VHB™ Tape 5981-020

English-US

Last Revision Date: July, 2025

Supersedes: September, 2024

Product Details

Product Description

3M™ VHB™ Tapes 5981-020 is an integrated bonding solution for electronic device manufacturers who value robust impact-resistant bonding performance but desire improved ease of use over typical foam bonding tape constructions and liquid adhesives. The 5981 series 3M™ VHB™ Tapes feature a thin film carrier in combination with two layers of a high-performance modified acrylic foam adhesive. This layered construction enables improved handling and proven capability to convert into narrow bond lines while preserving adhesion, impact resistance, anti-lifting, push-out, waterproofing and improved reworkability performance.

Product Features

- Narrow bond line converting capability to 0.5 mm
- Good reworkability/removal characteristics
- High bond strength
- Thin foam pressure sensitive adhesive (PSA) on both sides of a thin carrier film
- Good impact resistance and conformability

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
Color		Black
Adhesive Type		Modified Acrylic
Density	ASTM D3574	965 kg/m³ (60.2 lb/ft³) [1]
Total Tape Thickness	ASTM D3652	0.20 mm (8 mil)
Liner		Clear polyester on both sides
Primary Liner Color		Clear
Primary Liner Thickness		0.05 mm (0.002 in)
Secondary Liner Color		Clear
Secondary Liner Thickness		0.075 mm (0.003 in)
Thickness Tolerance		±15 %

[1] Foam with adhesive

Typical Performance Characteristics

180° Peel Adhesion

Temperature: 23 °C (73 °F)
Dwell Time: 72 h
Test Method: ASTM D3330

Substrate	Value
Acrylic (PMMA)	130 N/100mm (120 oz/in) [1]
Glass	145 N/100mm (130 oz/in) [1]
Polycarbonate (PC)	155 N/100mm (140 oz/in) [1]
Stainless Steel	140 N/100mm (125 oz/in) [1]

[1] 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 min [1]

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

Attribute Name	Dwell Time	Temperature	Value
Anti-Lift Testing	24 h	70 °C (158 °F)	0 mm [1]
IPX Water Resistance			IPX8 Waterproof Characteristics: 1 mm Wide Tape Bonding Polycarbonate to Stainless Steel. No leaks after 30 minute duration at 30 m H_20 depth simulation (42.7 psi)

[1] Flat substrates w/forced curvature: anodized aluminum to polycarbonate

Attribute Name	Value
Note	The following technical information and data should be considered representative or typical only and should not be used for specification purposes. Final product specifications and testing methods will be outlined in the product's Certificate of Analysis (COA) that is shipped with the product.

Handling/Application Information

Application Examples

- Lens and back cover bonding
- LCM attachment
- Touch panel bonding
- Bezel bonding

Application Techniques

For maximum bond strength the substrate surfaces should be thoroughly cleaned with a 50:50 mixture of isopropyl alcohol and water. Consult manufacturer's directions for use and precautions when using cleaning solvents and adhesion promoters. Ideal tape application is accomplished when temperature is between 21° and 38°C (70° and 100°F) and the bond is allowed to dwell 72 hours. Initial tape application to surfaces at temperatures below 10°C (50°F) is not recommended.

Storage and Shelf Life

Store in original cartons at 4-38°C (40-100°F) and 0-95% relative humidity. Optimum storage conditions are 22°C (72°F) and 50% relative humidity. When stored under proper conditions, product retains its performance and properties for 24 months from date of manufacture.

Available Sizes

Attribute Name	Value
Core Size (ID)	76.2 mm (3 in)
Normal Slitting Tolerance	±0.8 mm (±1/32 in)
Standard Roll Length	66 m (72.2 yd)
Standard Width	560 mm (22 in)

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.

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