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 →

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



3M Science. Applied to Life.™

Technical Data Sheet

3M™ VHB™ Extrudable Tape GP

V-6 | English-US
Last Revision Date: May, 2026
Supersedes: September, 2024

Additional Info

Regulatory Info/SDS

Product Description

3M™VHB™ Extrudable Tape GP is a thermoplastic rubber-based pressure sensitive adhesive in filament form factor designed as a high-performance bonding solution via automated application.

This product provides adhesion to a broad array of substrates including metals, glass, plastics and paints, and is highly reworkable enabling clean removal during bonding assembly or disassembly processes.

Product Features

- Easy-to-use dispensable bonding solution providing high strength and durability
- Pressure sensitive adhesive properties for immediate handling strength
- Stretch release technology allows easy removal for reworkability and reduced scrap
- Excellent adhesion to metals, glass, rubber, LSE plastics, woven and non-woven textiles, and hard-to-bond materials
- Extruded tape can be laid in variable widths, thicknesses and profiles
- Gap filling capabilities that provide continuous seal against moisture and water
- Meets UL 746C (Polymeric Adhesive Systems, Electrical Equipment – Component)

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 - Adhesive Filament

Attribute Name	Value
Color	Black
Base chemistry	Synthetic rubber
Diameter	8.5 mm
Protective sheath	Polyolefin

Typical Physical Properties - Spool

Attribute Name	Value
Height	36,4 cm
Weight	15.9 kg [1]
Filament length	298 m
Flange Diameter	34,3 cm
Core ID	5.1 cm

[1] Target adhesive weight: 15.0 kg

Typical Physical Properties - Extruded Adhesive

Attribute Name	Value
Extrusion temperature	210 +/-10 °C

Typical Physical Properties - Dispensed Tape

Attribute Name	Value
Color	Black

Typical Performance Characteristics

90° Peel Adhesion

Temperature: 23 °C (73 °F)
Dwell Time: 72 h
Backing: 5 mil Aluminum Foil
Test Method: ASTM D3330

Substrate	Value
Polypropylene (PP)	85 N/cm (48 lb/in) [1]
Stainless Steel	86 N/cm (49 lb/in) [1]

[1] Melted adhesive was extruded directly onto the test substrate at a target thickness of 1.1mm. Extruder temperature was set at 215°C.
The specimens were conditioned for 72h 23°C/50%RH before conditioning/aging and 24h after conditioning/aging prior to testing.
Jaw speed: 300 mm/min.
Failure mode: Clean release from substrate.

Substrate: Stainless Steel
Temperature: 23 °C (73 °F)
Dwell Time: 24 h

Attribute Name	Test Method	Value
Overlap Shear Strength	ASTM D1002, ISO 4587	370 kPa (55 lb/in²) [1]

[1] Melted adhesive was extruded directly onto the test substrate for a target thickness of 1.1mm and 0.5in² overlap. Extruder temperature was set at 215°C.
The specimens were conditioned for 72h 23°C/50%RH before conditioning/aging and 24h after conditioning/aging prior to testing.
Jaw speed: 50 mm/min.
Failure mode: Clean release from substrate.

Extruding Considerations

Bead Size

Determine desired initial bead height/width for application based on final bond height and wet-out amount. For melted bonding, the height is probably the most important factor to ensure proper contact with second surface and wet-out. Note that the greater the difference between initial bead height and final bond height, the more pressure will be needed to flow the adhesive.
Sometimes multiple dispenser/motion system settings will achieve similar initial bead sizes. Choose settings with robot speed appropriate for desired application cycle time.

Purging

Purging material from the dispenser may be required in some situations. Depending on the process, a small amount of purging may be required to make the process more consistent (e.g., so that the dispensed bead begins at the same location on the substrate). The amount of purging required will vary depending on the length of time between dispense cycles (longer time requires more purging, short time may require little or no purging), but generally it will be less than 15 grams of material.
If material has not been dispensed or purged for 30 minutes or longer with the material heated at 205 °C (400 °F), purging 90 grams of material is recommended immediately before dispensing onto a substrate. This will purge potentially degraded material and renew the material in the dispenser.
If material has not been dispensed or purged for 4 hours or longer with the material heated at 205 °C (400 °F), purging 90 grams of material is recommended, even if not dispensing onto another substrate. This is to reduce risk of degraded material causing issues with the dispensing equipment.
Note that the above recommended time intervals will be shorter if the temperature of the material is higher than 205 °C (400 °F).
Note that purge time depends on dispense rate (the higher the dispense rate, the lower the purge time), and that purging can be accomplished at a higher rate than the rate used during application in order to minimize purge time.

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.

Precautionary Information

Refer to Product Label and Material Safety Data Sheet for health and safety information before using this product. For additional health and safety information, call 1-800-364-3577

Information

Intended Use: 3M™ VHB™ Extrudable Tape GP is intended for bonding of metals, high and medium surface energy plastics, painted surfaces, and certain low surface energy surfaces, when used in accordance with the guidance provided by 3M in this Technical Data Sheet and other product instructions. Since there are many factors that can affect the product's use, the customer remains responsible for determining whether the 3M product is suitable and appropriate for the customer's specific application and system, including customer conducting an appropriate risk assessment and evaluating the 3M product in customer's application and system.

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ISO Statement

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

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