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.

English-US

Last Revision Date: April, 2025

Supersedes: September, 2024

Technical Data Sheet

3M™ Polyolefin Bonding Adhesive 3731

Product Details

Regulatory Info/SDS

Product Description

3M™ Polyolefin Bonding Adhesive 3731 is a 100% solids, high heat resistant adhesive that bonds to a variety of substrates including polyethylene, polypropylene and many other plastics.

Product Features

- Solvent free, 100% solids
- High temperature resistance
- Bonds well to polyolefin based plastics
- Light tan color
- Fast setting

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	Temperature	Value
Color			Light Tan
Flash Point			273 °C (525 °F) [1]
Ball & Ring	ASTM E-28-607		157 °C (315 °F)
Specific Gravity			0.92
Viscosity		191 °C (375 °F)	12,000 cP [2]

[1] C.O.C.

[2] Brookfield Thermocel Viscometer in Centipoise using a #27 Spindle @ 10 RPM.

Typical Performance Characteristics

180° Peel Adhesion

Temperature: 23 °C (73 °F)

Substrate	Value
ABS	40 N/cm (368 oz/in) [1]
Cold Rolled Steel	26 N/cm (240 oz/in) [1]
High Density Polyethylene (HDPE)	40 N/cm (368 oz/in) [1]
Nylon	33 N/cm (304 oz/in) [1]
Polycarbonate (PC)	39 N/cm (352 oz/in) [1]
Polypropylene (PP)	39 N/cm (352 oz/in) [1]
Polystyrene (HIPS)	26 N/cm (240 oz/in) [1]
Polyvinyl chloride (PVC)	32 N/cm (288 oz/in) [1]

[1] Peel bonds of cotton duck were tested at a peel angle of 180° @ 51 mm/min (2 in/min) separation rate @RT.

Overlap Shear Strength

Temperature: 23 °C (73 °F)

Substrate	Value
High Density Polyethylene (HDPE)	30 kg/cm² (420 lb/in²)
ABS	32 kg/cm² (450 lb/in²)
P.V.C. (Rigid)	30 kg/cm² (430 lb/in²)
Polystyrene (HIPS)	18 kg/cm² (257 lb/in²)
Polycarbonate (PC)	30 kg/cm² (430 lb/in²)
Nylon	33 kg/cm² (475 lb/in²)
Douglas Fir	35 kg/cm² (490 lb/in²)
Cold Rolled Steel	27 kg/cm² (390 lb/in²)

Temperature Resistance

Temperature	Value
129 °C (265 °F)	0.14 kg/cm² (2 lb/in²)
135 °C (275 °F)	0.07 kg/cm² (1 lb/in²)
152 °C (305 °F)	0.02 kg/cm² (0.33 lb/in²)

Handling/Application Information

Directions for Use

1. 3M™ Polyolefin Bonding Adhesive 3731 is designed for applications using a 3M™ Polygun™ EC Applicator at the 4 or 5 module setting or a 3M™ Polygun™ II Applicator.
2. Recommended equipment temperature for bulk dispensing 350-375°F (177-191°C).
3. Apply to one surface. Make bond as soon as possible. Bond strength is maximized when open time is reduced.
4. After bond is made, there is immediate strength and no clamping is necessary.
5. Adhesive should be allowed to fully crystallize (possibly up to 12 hours) to obtain full performance properties.

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.

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

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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/adhesives.

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