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

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Technical Data Sheet

3M™ Laser Markable Label Material 7847

Product Details

Regulatory Info/SDS

Product Description

3M™ Laser Markable Label Material 7847 are specialty film label materials where a laser can ablate the top layer of a dual-layer facestock to create an image. The same laser can also kiss cut the label to size, maximizing flexibility for producing variable labels for durable applications.

Product Features

• Cast modified acrylate facestock offers long-term durability and abrasion, temperature, chemical and environmental resistance
• High-resolution and high-contrast images markable with standard Nd-Yag lasers for smaller barcodes, 2-D symbologies and fine point text.
• Convertability (“kiss cutting”) of acrylate facestock on densified kraft liner.
• Matte surface provides printability resulting in bar code readability.
• 3M™ High Performance Acrylic Adhesive 350 provides reliable, permanent adhesion to LSE plastics, oily metals, powder coatings and textured surfaces.
• Brittle facestock material provides destructibility to meet security labeling requirements.
• No corrosive emissions during the laser marking process.
• UL Recognized Component under file MH11410.
• CSA Recognized Component under file 99316.

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	Value
Adhesive Type	#350 high-holding acrylic

Attribute Name	Value
Adhesive Thickness	0.03 mm (1.2 mil)
Facestock Thickness	0.06 mm (2.4 mil)
Liner	Densified Kraft
Liner Thickness	0.077 mm (3 mil)

Typical Performance Characteristics

Attribute Name	Value
Minimum Application Temperature	4 °C (39 °F)
Elongation at Break	ca. 5 %
Tensile Strength	28 N/cm (3.1 oz/in)

Attribute Name	Value
Note	Calipers are nominal values

Typical Environmental Characteristics

Environmental Resistance

Note: The following tests are intended as a guide to product performance. Application testing is recommended using actual substrates, expected dwell times, and actual conditioning for best determination of product suitability.

Temperature Resistance: Resistant up to 392°F (200°C) (when applied to aluminum surfaces) 440°F (225°C) for 60 min

Dimensional Stability:<1% after 2 hours at 200 °C, or 24 hours at 150 °C
<1% after 24 hours -40°C:

Adhesive Performance/Bond Strength:
Substrate Oz/in N/in
Stainless Steel 115 32
Polypropylene 86 24
Polycarbonate 82 23
ABS 93 26

72 hour room temperature dwell, 300 mm/min, at 180° angle, film width: 25.4 mm. Adhesive performance for each case can depend on the texture of the surface. The above adhesive values are average values. They are not appropriate for specifications.

Weather Resistance: Acceleration test in the Xenon device, 2000 hours: No change.

Resistance to Environmental Conditions:
(applied to aluminum): No change.
24 hours:-40°F (-40°C)
24 hour:s 300°F (150°C)
2 hours:390°F (200°C)

Resistance to Chemical Immersion:
Substance Exposure Time Results
Diesel 4 hours No change
Dot 4 1 hour No change
Salt Spray:150 Hours : no change

Processing

Laser Marking:
• 3M™ Laser Markable Label Material 7847 are compatible with many kinds of dispenser systems and is suitable for a continuous process with minimal supervision.
• 3M recommends operating an exhaust system combined with a charcoal filter to reduce emissions during the laser operation.
• All Nd-Yag laser marking equipment on the market can ablate and “kiss cut” 3M™ Laser Markable Label Material 7847.
• For optimized optical results, 3M recommends individually adjusting marking parameter, such as power, pulse rate, and speed, to your individual requirements depending on the type of labels to be produced (bar codes or characters).

Printing:
• When using press printing methods, 3M recommends pre-printing tests to check for sufficient ink adhesion.

Handling/Application Information

Application Examples

- Durable goods marking
- Under hood labels
- Barcode labels
- Process labeling in-plant
- Asset labels
- Security labels
- Information labels with 2-D symbologies

Industry Specifications

UL Recognized (File MH11410)
CSA Accepted (File 99316)

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.

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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