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
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산업안전 보호구

전신형 안전대 · 랜야드 · 안전블록
작업 환경에 맞춘 개인보호구

산업용 소재·건축자재

산업용 테이프 · 접착제 · 기능성 소재
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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.



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Technical Data Sheet

3M™ Destructible Acetate Durable Label Material FA112

Additional Info

Regulatory Info/SDS

Product Description

3M™ Destructible Acetate Durable Label Material FA112 offers consistent, high quality film that fractures when attempting label removal from many surfaces. This acetate label utilizes 3M™ Adhesive P1212, which is a high clarity general purpose acrylic emulsion for use on overlamination and decorative films that exhibits initial tack, die cutting properties, minimal cold flow, and UV resistance.

Product Features

• Meets CONEG requirements.
• Liner is designed for high-speed die cutting and matrix stripping. Not recommended for sheet on press applications.
• The destructibility of the label depends upon adequate adhesion of the label to the substrate. A sufficient bond may not develop on all surfaces due to low surface energy, contaminated, or textured surfaces (see Application section for some suggested techniques). It is important to determine the suitability of the product in the intended application by carefully pretesting with application surfaces and real life conditioning.
• The primary function of the product is to produce a tamper-indicating label or seal by causing the label to fracture when removal from the substrate is attempted. Since no tamper-indicating feature is 100% tamper-proof, careful consideration must be taken when designing labels and seals. When the consequences of tampering could be severe, such as loss of life of significant monetary loss, these products are not recommended to be the sole means of package or product tamper indication. In these instances, additional methods in combination with the labels should be considered so that the tamper-indicating features are commensurate with the requirements of the application.

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	P1212 Perm. 18
Facestock	Clear Destructible Acetate
Adhesive Coat Weight	1.58 — 1.93 g/100 in²

Attribute Name	Value
Facestock Thickness	0.051 mm (2 mil)
Liner	50# SC semi-bleached super calendered kraft sheet
Liner Thickness	0.079 mm (3.1 mil)

Attribute Name	Value
Convertability	3M™ General Purpose Acrylic Adhesive P1212 is designed to be compatible with a variety of print methods and indoor end use applications. Adhesive processing issues are not anticipated when proper roll tensions, handling and storage conditions are used. Please refer to the die cutting/converting section of this data page or the “Guide to Converting and Handling Label Products” technical bulletin for additional information.

Construction Tested

Adhesion properties determined per TLMI Method using 1.0 mil polyester with 0.9 mil of adhesive on a polished stainless steel panel.

Typical Performance Characteristics

Test Method: TLMI

Attribute Name	Temperature	Substrate	Value
180° Peel Adhesion	23 °C (73 °F)	Stainless Steel	5.28 N/cm (48 oz/in) [1]
Liner Release	23 °C (73 °F)		3 — 9.8 g/cm (15 — 50 g/2 in) [2]
Shear Adhesion			3 h [3]
Loop Tack			3.16 N/cm (28.8 oz/in) [1]

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

[2] 180° removal, 300 in/min

[3] 0.25 in² x 500g

Attribute Name	Value
Application Temperature	5 — 49 °C (40 — 120 °F)
Long Term Temperature Resistance	60 °C (140 °F) [1]
Minimum Long Term Temperature Resistance	-29 °C (-20 °F) [1]

[1] Long Term (day, weeks)

Attribute Name	Value
Note	Calipers are nominal values

Typical Environmental Characteristics

Environmental Resistance

Not intended for outdoor applications or for use in areas of constant exposure to water or strong chemicals. It is recommended that polyester identification material or laminating films be used for these applications.

Printing

This film should be printable via various print techniques including flexography, hotstamp, letterpress, and screen printing. Whenever printing 3M™ Acetate Label Products for the first time, with a different ink system, or on a new machine, we strongly recommend carrying out proofing trials to validate ink adhesion and durability prior to a full production run.

Converting

Die-cutting: Due to the fragile nature of the facestock, special handling (wider label matrix and wider edge trim to aid matrix stripping) should be considered when designing and processing fragile labels. For specific tips, see the IATD Technical Bulletin “Die-cutting Fragile Label Stocks.” The manufacture of this film notes that:
• Flatbed or rotary dies can be used but be sure that a prepress die cutting trial is performed prior to running production.
• A stripping roller performs better than a stripping bar.
• Assist rollers may alleviate breaks at high speed due to the flexing of the die cylinder.
• Low temperatures increase the brittleness of the film and are to be avoided during die cutting.

Dispensing: The fragile facestock may present some difficulties in automatic dispensing. Testing with the intended application equipment and actual product samples are recommended before use.

Handling/Application Information

Application Examples

Packaging seals, calibration seals, asset labels.

Application Techniques

• Ensure that all corner radii are 5 mm or greater.
• Gutter between labels in the machine direction should be at least twice the width in the cross direction to avoid waste skeleton breaks.
• Long labels should lead with the shorter dimensions.
• Label shape should be as simple as possible, i.e., squares, rectangles or circles. T-shapes, tadpole, or butterfly shapes are possible but reduced running speeds may be necessary to facilitate matrix stripping.

Industry Specifications

Meets CONEG requirements

Storage and Shelf Life

Store under normal conditions of 16° to 27°C (60° to 80°F) and 40 to 60% relative humidity in a sealed plastic bag, out of direct sunlight. For best performance, use this product within 12 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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