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™ Tamper-Indicating Label Material 7381/7866

Product Details

Regulatory Info/SDS

Product Description

3M™ Tamper-Indicating Label Material 7381/7866 is designed to provide a “void” message in the facestock when removal is attempted. 3M label material 7381/7866 utilizes 3M™ Adhesive 300, which bonds well to a wide variety of substrates including high and low surface energy plastics.

Product Features

- The compact format of the “void” message permits manufacture of small labels (1/2" x 1-1/4").
- Adhesive provides high bond to most surfaces.
- Durable polyester facestock withstands harsh environments.
- 55# densified kraft liner assures consistent die cutting.
- UL Recognized files MH11410 and MH16411

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	#300 “Hi-Strength” Acrylic
Facestock	Gloss White Polyester TC
Conformability	Semi-rigid, suitable for flat or slightly curved surfaces.
Destruct Pattern	VOID
Adhesive Coat Weight	1.21 — 1.49 g/100 in^2

Attribute Name	Value
Adhesive Thickness	0.025 mm (1 mil)
Facestock Thickness	0.05 mm (2 mil)
Liner	55# Densified Kraft
Liner Thickness	0.08 mm (3.2 mil)

Typical Performance Characteristics

Attribute Name	Value
Note	Calipers are nominal values

Typical Environmental Characteristics

Environmental Resistance

The properties defined are based on the adhesion of the label material to a stainless steel test surface.

Chemical Resistance: Bond is secure when exposed to the following:
Gasoline - 1 hr at room temperature
Auto Oil - 72 hrs at 120°F (49°C)
Weak Alkali - 4 hrs at room temperature
Weak Acid - 4 hrs at room temperature
MEK - 1 hr at room temperature
Freon® TF - 1 hr at room temperature
NaCl Solution - 72 hrs at room temperature

Water Resistance: Withstands exposure to water at room temperature for 72 hours.

Temperature Resistance: Withstands exposure from -40°F (-40°C) to 250°F (121°C).

Humidity Resistance: Withstands exposure to 90°F (32°C) and 90% RH for 168 hours.

Processing

Incoming Label Materials:
Every slit roll has been tested for the presence of “void” message. The leading edge of every slit roll is tabbed with a 1-1/2" strip to simulate tampering, thereby indicating that the “void” message is functional on the leading edge of that roll.

Printing:
Caution should be exercised to avoid covering the surface of the label with opaque graphics to the extent that the “void” message is hidden, and the effectiveness of the label or seal is lessened.

Die-Cutting:
The compact “void” message permits manufacture of labels as small as 1/2" x 1-1/4" (13 mm x 32 mm).
It is recommended that the converter test for the presence of the “void” message on every roll of labels or seals as the converter processes them, to insure the product quality and consistency. This can be done by laminating a label or seal to an untreated polyester film test surface. The label or seal should be wiped down with a squeegee, allowed to dwell 10 minutes and then removed to observe the presence and functions of the “void” message on both the facestock and the substrate. It is also recommended that the converter test each lot of labels or seals on the actual application surface to assure the function of the “void” message.

Dispensing:
Care should be taken not to disturb the tamper-indicating feature by pre-destructing the “void” message when manually removing the label from the liner. Slowly remove the liner from the label at a 90° angle. It is recommended that the end user test samples for each roll of labels or seals received from the converter. This should be done by laminating a representative label or seal to the specific application surface to assure its function meets expectations. This test can be run after 10 minutes dwell. However, final judgement should be based on 72 hours dwell at room temperature prior to testing.

Application:
The tamper-indicating mechanism (i.e. the “void” message both on the facestock and on the substrate) depends upon adequate adhesion of the label to the substrate. A sufficient bond may not develop on all surfaces due to low surface energy (e.g. Teflon®), contaminated or textured surfaces. Therefore, it is important to determine the suitability of the product in the intended application by carefully pretesting. The primary function of the products is to effect a non-transferable (nonreusable) label or seal by causing the “void” message to appear on the facestock when removal from the substrate is attempted. As a result of the primary function, a “void” message is also transferred to the substrate. This message transferred to substrate can be removed by hand rubbing or by solvent wiping.
Our tamper-indicating product line is designed to indicate tampering by destructing when an attempt is made to remove the label. 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 injury or loss of human life or significant monetary loss, these products aren’t recommended as 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.

Handling/Application Information

Directions for Use

Assume all surfaces to which these label materials will be applied are contaminated – metals may be oily or dusty; plastics may be coated with mold release agents, dirt, etc. Any surface contaminant will adversely affect adhesion and the destruct message; therefore, it must be removed prior to application by wiping with a solvent. Consult the manufacturer's Material Safety Data Sheet for proper handling and storage of solvents.

Adheres to the following clean surfaces:
Stainless Steel
ABS
Polypropylene
Painted Metal
Polyester
HDPE
Nylon
Glass
Polycarbonate

Clean Substrate: Wet the application surface with a mild solvent such as isopropyl alcohol (rubbing alcohol) or heptane and wipe thoroughly.*
Dry the surface with a lint free cloth before the solvent evaporates from the surface.

Application Pressure: Sufficient application pressure and dwell time is required to develop adhesion to assure "void" message appears both on facestock and substrate upon removal or upon attempted removal through tampering. Higher initial bonds can be achieved through increased application pressure such as firm hand or squeegee pressure.

*Note: When using solvents, extinguish all ignition sources, and follow the manufacturer's precautions and directions for use.

Application Examples

• Non-transferable labels for automotive, appliance and electronics industries.
• Tamper-indicating labels and seals for over-the-counter drugs and other packaging applications.

Industry Specifications

UL Recognized, File PGGU2.MH11410, Marking & Labeling System Materials - Component, ANSI/UL 969
UL Recognized, File PGJI2.MH16411, Printing Materials - Component, ANSI/UL 969

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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