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.

Technical Data Sheet

3M™ Aluminum Foil Label Material 7940

Additional Info

Regulatory Info/SDS

Product Description

3M™ Aluminum Foil Label Materials are durable, thin gauge aluminum designed to meet a wide range of difficult nameplate application requirements. 3M™ Aluminum Foil Label Materials 7940 utilizes 3M™Adhesive 320 which offers adhesion to a variety of surfaces including high surface energy (HSE) and low surface energy (LSE) plastics.

Product Features

• The liner for 3M label material 7940 provides sheet processing and is designed for layflat. The backside of the liner is not printable.
• UL Recognized file MH11410

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	320 High Tenacity Acrylic
Facestock	Matte Silver Aluminum Foil Vinyl TC

Attribute Name	Value
Adhesive Thickness	0.043 mm (1.7 mil)
Facestock Thickness	0.051 mm (2 mil)
Liner	90# Polyctd. bleached kraft sheet polyethylene coated on two sides
Liner Thickness	0.17 mm (6.7 mil)

Attribute Name	Value
Convertability	3M™ High Tenacity Acrylic Adhesive 320 is specifically designed to be compatible with flexographic and thermal transfer technologies. Its aggressive tack properties, while desirable for the end use application, may require extra care during processing. 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.

Typical Performance Characteristics

90° Peel Adhesion

Temperature: 23 °C (73 °F)
Test Method: ASTM D3330

Dwell Time	Substrate	Value
10 min	ABS	7.8 N/cm (71 oz/in) [1]
10 min	Aluminum	5.6 N/cm (51 oz/in) [1]
10 min	Glass	0.76 N/cm (6.9 oz/in) [1]
10 min	Polypropylene (PP)	4.3 N/cm (39 oz/in) [1]
10 min	Stainless Steel	6.3 N/cm (58 oz/in) [1]
72 h	ABS	8.0 N/cm (73 oz/in) [1]
72 h	Aluminum	6.8 N/cm (62 oz/in) [1]
72 h	Glass	8.0 N/cm (73 oz/in) [1]
72 h	Polypropylene (PP)	5.8 N/cm (53 oz/in) [1]
72 h	Stainless Steel	69 N/cm (7.5 oz/in) [1]

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

Attribute Name	Value
Minimum Application Temperature	10 °C (50 °F)
Long Term Temperature Resistance	121 °C (250 °F) [1]
Minimum Long Term Temperature Resistance	-40 °C (-40 °F) [1]

[1] Long Term (day, weeks)

Attribute Name	Value
Note	Calipers are nominal values

Typical Environmental Characteristics

Chemical and Environmental Exposure

Liquid Dwell Time/Exposure Condition Results
Isopropyl Alcohol @ Room Temperature 4 hours No change
Long term (days) Not recommended
Isopropyl Alcohol @ Room Temperature 3 days 4 mm edge penetration
Engine Oil @ Room Temperature 3 days No change
Weak Acid (pH4) @ Room Temperature 3 days No change
Weak Base (pH10) @ Room Temperature 3 days No change
Water @ Room Temperature 3 days No change
Acetone, gasoline and mineral spirits 4 hours 1-3 mm edge penetration
Long term (days) Not recommended

Humidity Resistance

3 days at 90°F (32°C) and 90% relative humidity: No change

Temperature Resistance

100°F (38°C) for 1 day: No change
300°F (149°C) for 1 day: Some yellowing of top-coat
-40°F (-40°C) for 1 day: No change

Printing

All versions of 3M™ Aluminum Foil Label Materials are equipped, print-ready, with a vinyl topcoating. This topcoating is printable with conventional or UV inks using flexographic, letterpress, or screen printing processes. It is also capable of embossing with dot matrix impact printers. Whenever printing 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:
3M™ Aluminum Foil Label Materials 7940 : Flatbed, matched metal dies, steel rule

Dispensing:
The liners for 3M™ Aluminum Foil Label Materials are designed for manual or semi-automatic. Be sure to properly test the materials in the particular process to determine suitability. Note that when manually dispensing, pull the liner away from the face to avoid bending the foil face into a permanent shape.

Handling/Application Information

Application Examples

• Inexpensive metal nameplate alternative for appliance, electronics, automotive and aircraft industries.
• Durable OEM decals.
• Serialized rating plates where extremely high bond and long term stability are needed.
• Embossed seals.

Application Techniques

• While the aluminum foil has abrasion resistance, the use of overlaminating films can enhance performance.
• Foil nameplates should be as flat as possible before application. Any curl in the plate prior to application will remain in the metal memory and could lead to lifting at the edges. It is desirable to remove the liner from the nameplate by peeling it back at 180°and allowing the nameplate to project in a flat plane.
• For maximum bond strength, surface should be thoroughly clean and dry. A typical cleaning solvent is heptane or isopropyl alcohol. Note: Consult the manufacturer's MSDS for proper handling and storage of solvents. For best bonding conditions, application surface should be at room temperature or higher. Low temperature surfaces, (below 50°F [10°C]), can cause the adhesive to become so firm that it will not develop maximum contact with the substrate. Higher initial bonds are achieved through increased rubdown pressure.

Industry Specifications

UL Recognized, File PGGU2.MH11410, Marking & Labeling System 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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