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

스냅슛 (SNAPSHOOT)

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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.



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Technical Data Sheet

3M™ Durable Label Material 7840HL

V-5 | English-US
Last Revision Date: December, 2025
Supersedes: April, 2025

Additional Info

Product Description

3M™ Durable Label Material 7840HL is a matte radiant white polyester label stock that offers excellent moisture resistance and thermal stability. This label product utilizes utilize 3M™ Adhesive 310 which is a firm adhesive which resists oozing and provides high strength on a variety of surfaces including high surface energy (HSE) plastics and metals.

Product Features

• Topcoated polyester provides excellent toner anchorage. It is also receptive to dot matrix printing and is hand writeable. The matte coating resists degradation from
scuffing, chemicals, moisture, and wide temperature fluctuations. The topcoat also provides improved ink anchorage for traditional forms of press printing.
• UL recognized (File MH16411) See the UL listing for additional details
• Ambient temperatures and humidity levels will impact lay flat properties of label material. Store unconverted label stock in controlled environment of 70°F (21°C)
and 50% relative humidity.
• 78# CCK liner is designed for sheet fed laser toner products and is backside printable. To test lay flat properties of converted material, place in controlled environment described above. Converted laser sheet will acclimate and return to lay flat state. Slight curl may occur as a result of heat exposure through the laser print but should not affect processing in many laser printers.

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	#310 Acrylic
Facestock	Matte Radiant White Polyester

Attribute Name	Value
Adhesive Thickness	0.02 mm (0.8 mil)
Facestock Thickness	0.058 mm (2.3 mil)
Liner	78# Clay coated kraft
Liner Thickness	0.117 mm (4.6 mil)

Typical Performance Characteristics

180° Peel Adhesion

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

Dwell Time	Substrate	Value
10 min	Polycarbonate (PC)	5.1 N/cm (47 oz/in) [1]
10 min	Polypropylene (PP)	2 N/cm (18 oz/in) [1]
10 min	Stainless Steel	4.7 N/cm (43 oz/in) [1]
72 h	Polycarbonate (PC)	5.7 N/cm (52 oz/in) [1]
72 h	Polypropylene (PP)	2 N/cm (18 oz/in) [1]

Dwell Time	Substrate	Value
72 h	Stainless Steel	5.6 N/cm (51 oz/in) [1]

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

Temperature: 23 °C (73 °F)

Attribute Name	Test Method	Value
Liner Release	TLMI	1 — 14.7 g/cm (5 — 70 g/2 in) [1]

[1] 180° removal, 300 in/min

Attribute Name	Value
Minimum Application Temperature	10 °C (50 °F)
Long Term Temperature Resistance	149 °C (300 °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 Performance

180° Peel Adhesion

Temperature: 32 °C (90 °F)
Dwell Time: 24 h
Test Method: ASTM D3330
Environmental Condition: 90 %RH

Substrate	Value
High Density Polyethylene (HDPE)	3.8 N/cm (35 oz/in) [1]
Polycarbonate (PC)	6.8 N/cm (62 oz/in) [1]
Polypropylene (PP)	4.2 N/cm (38 oz/in) [1]
Stainless Steel	8.1 N/cm (74 oz/in) [1]

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

Typical Environmental Characteristics

Humidity Resistance

24 hours at 100°F (38°C) and 100% relative humidity: no significant change in appearance or adhesion

Processing

Designed for rotary die cutting. Use sharp rotary dies tooled for the specific label material. Avoid stacking fanfolded labels higher than three or four inches.

Printing

Facestock is topcoated for improved ink receptivity and is designed for laser toner and dot matrix printing. It is printable by all standard roll processing methods including flexography, hot stamp, letterpress, and screen printing.

Handling/Application Information

Application Examples

- Barcode labels and rating plates.
- Property identification and asset labeling.
- Warning, instruction, and service labels for durable goods.
- Nameplates and durable goods.

Application Techniques

For maximum bond strength, the surface should be clean and dry. Typical cleaning solvents are heptane and isopropyl alcohol.**Note: When using solvents, read and follow the manufacturer's precautions and directions for use.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 can be achieved through increased rubdown pressure.

Agency Listing Information

Laser Toner Printing: Laser Toner/UL RecognizedHitachi HMT 446 toner kit for producing finished printed labels with UL ListedSynergystex CF1000 laser printer, Analog Technology Corporation (ATC) 8030,Facit D7160, IBJ 1600C, Diagraph Predator, OTC Laser Matrix 1000, CAB CF1000or QMS Magnum CF2215 laser printer.

Industry Specifications

UL Recognized (File MH16411)

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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