SNAPSHOOT
ENGINEERED FOR A SAFER TOMORROW

# 현장을 이해하고, 필요한 솔루션을 연결합니다.

산업안전 · 추락방지 시스템
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제품 제안부터 공급·시공·설치·교육까지




COMPANY INFORMATION

**스냅슛 (SNAPSHOOT)**

ADDRESS (15431) 경기도 안산시 단원구 풍전로 37-9 트리플렉스 301동 118호
TEL 0507-1374-9229
FAX 0504-481-6749
E-MAIL bkkim@snapshoot.co.kr

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.

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# Technical Data Sheet

3M™ Versatile Print Label Material 7868V

Additional Info

## Product Description

3M™ Versatile Print Label Material 7868V is a gloss polyester label material that offers durability and moisture resistance. The topcoat is formulated to print with multiple technologies, including UV inkjet, water flexo, UV flexo, thermal transfer, and screen printing. This label product utilizes 3M™ High Performance Acrylic Adhesive 350, it offers chemical resistance and holding strength even at high temperatures.

## Product Features

• Adhesive can permanently bond to high surface energy (HSE) surfaces , low surface energy (LSE) plastics, and contoured surfaces
• Facestock is topcoated for high quality and durable printing with multiple print technologies including UV inkjet, water and UV flexo, thermal transfer, and screen.
• UL recognized (File MH16411) See the UL listing for details.

## 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 Acrylic |
| Facestock | White Polyester Versatile TC |
| Adhesive Coat Weight | 1.75 — 2.02 g/100 in² |

| Attribute Name | Value |
|---|---|
| Adhesive Thickness | 0.028 mm (1.1 mil) |
| Facestock Thickness | 0.051 mm (2 mil) |
| Liner | 55# Densified Kraft |
| Liner Thickness | 0.081 mm (3.2 mil) |

| Attribute Name | Value |
|---|---|
| Convertability | In order to capture the superior performance properties of 3M™ High Holding Acrylic Adhesive 350, thicker calipers are utilized for LSE or textured substrates. Its higher caliper, while desirable for the end use applications, 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

### 180° Peel Adhesion

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

| Dwell Time | Substrate | Value |
|---|---|---|
| 20 min | Polycarbonate (PC) | 7.2 N/cm (65 oz/in) [1] |
| 20 min | Polypropylene (PP) | 6.1 N/cm (56 oz/in) [1] |
| 20 min | Stainless Steel | 7.5 N/cm (68 oz/in) [1] |
| 72 h | Polycarbonate (PC) | 8.2 N/cm (74 oz/in) [1] |
| 72 h | Polypropylene (PP) | 7.5 N/cm (68 oz/in) [1] |
| 72 h | Stainless Steel | 8.8 N/cm (80 oz/in) [1] |

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

Temperature: 23 °C (73 °F)

| Attribute Name | Test Method | Value |
|---|---|---|
| Liner Release | TLMI | 1 — 13.7 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: 37 °C (100 °F)
Dwell Time: 72 h
Test Method: ASTM D3330
Environmental Condition: 100 %RH

| Substrate | Value |
|---|---|
| Polycarbonate (PC) | 6.1 N/cm (55 oz/in) [1] |
| Polypropylene (PP) | 7.0 N/cm (64 oz/in) [1] |
| Stainless Steel | 8.5 N/cm (77 oz/in) [1] |

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

Substrate: Stainless Steel
Temperature: 65 °C (150 °F)
Dwell Time: 96 h
Environmental Condition: 80 %RH

| Attribute Name | Test Method | Value |
|---|---|---|
| Accelerated Aging | ASTM D3611 | 8.3 N/cm (76 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

### Temperature Resistance

When applied to stainless steel. Other substrates should be tested per application.
300°F (149°C) for 24 hours: no significant visual change

-40°F (-40°C) for 10 days: no significant visual change

## Printing

Facestock is topcoated for improved ink receptivity and is designed for UV Inkjet, water flexo, UV flexo,screen, and thermal transfer printing.
UL approved inks (evaluated in black, blue, red, and yellow)
**Actega Actexact: -40°-150°C. Red and Yellow Indoor Only.**
**Actega Optafilm: -40°-150°C. Red and Yellow Indoor Only.**
**Flint Hydrofilm Ace: -40°-150°C. Red Indoor Only.**
**Flint Flexocure Force: -40°-150°C. Red and Yellow Indoor Only.**
**Domino N610i: -40°-150°C. All Colors Indoor and Outdoor.**
**Durst Tau RSC: -40°-150°C. All Colors Indoor and Outdoor.**
**EFI Jetrion 4830: -40°-150°C. All Colors Indoor and Outdoor.**
**INX Prodigy: -40°-150°C. All Colors Indoor and Outdoor.**
**Mark Andy Digital Series: -40°-150°C. All Colors Indoor and Outdoor.**
**Stork DSI Digital UV: -40°-150°C. Yellow Indoor Only.**

## Converting

Rotary die cutting is recommended. Fanfolding of labels is not recommended. Small labels should be evaluated carefully. Winding tensions should be kept at a minimum to help prevent the adhesive from oozing.

## 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.*

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.

*When using solvents, read and follow the manufacturer’s precautions and directions for use.

## 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.

## Available Sizes

| Attribute Name | Value |
|---|---|
| Packaging | Finished labels should be stored in plastic bags. |

## Information

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## ISO Statement

This product was manufactured under a 3M quality system registered to ISO 9001 standards.

3M™ Industrial Adhesives and Tapes Division
3M Center, St. Paul, MN 55144-1000
3M.com/iatd

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