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

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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.

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# Technical Data Sheet

3M™ Vinyl Label Material FV0322

Additional Info

Regulatory Info/SDS

## Product Description

3M™ Vinyl Label Material FV0322 is a printable vinyl labelstock designed for general industrial applications. This product utilizes 3M™ Adhesive P1212, offering adhesive strength on surfaces including high surface energy (HSE) plastics and metals.

## Product Features

- UL Recognized (File MH11410).
- Liner is designed for high-speed die-cutting and matrix stripping. Not recommended for sheet on press applications.

## 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 |
|---|---|
| Facestock | Soft White Vinyl |
| Adhesive Type | P1212 Acrylic |
| Liner | 50# SC semi-bleached super calendered kraft sheet |

| Attribute Name | Value |
|---|---|
| Facestock Thickness | 0.086 mm (3.4 mil) |
| Adhesive Thickness | 0.021 mm (0.9 mil) |
| Liner Thickness | 0.081 mm (3.2 mil) |

## Typical Performance Characteristics

Labels were applied at room temperature (23 °C/73 °F) and left to dwell at room temperature (23 °C/73 °F) for 72 hours before additional temperature or environmental exposure. Testing was performed at room temperature and humidity (23 °C/73 °F and 50% RH).

### 180° Peel Adhesion

Test Method: ASTM D3330

| Dwell Time | Temperature | Environmental Condition | Substrate | Value |
|---|---|---|---|---|
| 20 min | 23 °C (73 °F) | | ABS | 8.72 N/cm (79.7 oz/in) [1] |
| 20 min | 23 °C (73 °F) | | High Density Polyethylene (HDPE) | 1.60 N/cm (14.6 oz/in) [1] |
| 20 min | 23 °C (73 °F) | | Polycarbonate (PC) | 8.75 N/cm (80.0 oz/in) [1] |
| 20 min | 23 °C (73 °F) | | Polypropylene (PP) | 2.97 N/cm (27.2 oz/in) [1] |
| 20 min | 23 °C (73 °F) | | Stainless Steel | 4.35 N/cm (39.8 oz/in) [1] |

| Dwell Time | Temperature | Environmental Condition | Substrate | Value |
|---|---|---|---|---|
| 72 h | 23 °C (73 °F) | | ABS | 8.66 N/cm (79.2 oz/in) [1] |
| 72 h | 23 °C (73 °F) | | High Density Polyethylene (HDPE) | 2.53 N/cm (23.1 oz/in) [1] |
| 72 h | 23 °C (73 °F) | | Polycarbonate (PC) | 8.85 N/cm (80.9 oz/in) [1] |
| 72 h | 23 °C (73 °F) | | Polypropylene (PP) | 3.88 N/cm (35.4 oz/in) [1] |
| 72 h | 23 °C (73 °F) | | Stainless Steel | 7.87 N/cm (71.9 oz/in) [1] |
| 72 h | 70 °C (158 °F) | | ABS | 6.90 N/cm (63.1 oz/in) [1] |
| 72 h | 70 °C (158 °F) | | High Density Polyethylene (HDPE) | 2.17 N/cm (19.8 oz/in) [1] |
| 72 h | 70 °C (158 °F) | | Polycarbonate (PC) | 5.34 N/cm (48.8 oz/in) [1] |
| 72 h | 70 °C (158 °F) | | Polypropylene (PP) | 2.72 N/cm (24.8 oz/in) [1] |
| 72 h | 70 °C (158 °F) | | Stainless Steel | 8.00 N/cm (73.1 oz/in) [1] |
| 72 h | -40 °C (-40 °F) | | ABS | 10.71 N/cm (97.9 oz/in) [1] |
| 72 h | -40 °C (-40 °F) | | High Density Polyethylene (HDPE) | 2.02 N/cm (18.4 oz/in) [1] |
| 72 h | -40 °C (-40 °F) | | Polycarbonate (PC) | 11.44 N/cm (104.5 oz/in) [1] |
| 72 h | -40 °C (-40 °F) | | Polypropylene (PP) | 3.65 N/cm (33.3 oz/in) [1] |
| 72 h | -40 °C (-40 °F) | | Stainless Steel | 6.11 N/cm (55.8 oz/in) [1] |
| 72 h | 38 °C (100 °F) | 100 %RH | ABS | 6.74 N/cm (61.6 oz/in) [1] |
| 72 h | 38 °C (100 °F) | 100 %RH | High Density Polyethylene (HDPE) | 2.26 N/cm (20.7 oz/in) [1] |
| 72 h | 38 °C (100 °F) | 100 %RH | Polycarbonate (PC) | 5.38 N/cm (49.2 oz/in) [1] |
| 72 h | 38 °C (100 °F) | 100 %RH | Polypropylene (PP) | 3.41 N/cm (31.2 oz/in) [1] |
| 72 h | 38 °C (100 °F) | 100 %RH | Stainless Steel | 7.54 N/cm (68.9 oz/in) [1] |

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

Temperature: 23 °C (73 °F)

| Attribute Name | Test Method | Value |
|---|---|---|
| Liner Release | TLMI | 0.132 N/25.4mm (27.9 g/2 in) [1] |

[1] 180° removal, 300 in/min

| Attribute Name | Value |
|---|---|
| Long Term Temperature Resistance | 60 °C (140 °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

### Temperature Resistance

Visual assessment: Labels were applied to stainless steel panels at room temperature (23 °C/73 °F)and left to dwell at room temperature (23 °C/73 °F)for 72 hours. The labels were then exposed to -40 ˚C, 60 °C, or 150 ˚C for 96 hours to assess the temperature range of the product.

150 °C (300 °F) for 96 hours: material turns black after exposure
60 °C (140 °F) for 96 hours: no significant visual change
-40 °C (-40 °F) for 96 hours: no significant visual change

Other substrates should be tested per application.

## Processing

**Printing:**
Facestock is treated for ink receptivity. The topcoat provides ink anchorage for common printing methods including flexography, termal transfer and screen printing.
**Die Cutting:**
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.
**Packaging:**
Finished labels should be stored in plastic bags.

## Special Considerations

For maximum bond strength, the surface should be clean and dry. Typical cleaning solvent is 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 5 °C (41 °F), 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.

## Handling/Application Information

### Application Examples

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

## Industry Specifications

UL Recognized, File PGJI2.MH11410

## Storage and Shelf Life

Finished labels should be stored in plastic bags.

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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