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.

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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

Preliminary 3M™ Sheet and Screen Label Material 9020FL

## Product Description

3M™ Sheet and Screen Label Material 9020FL is a durable, high performance material that offers thermal stability and moisture resistance. This material utilizes 3M™ Adhesive 200MP, a solvent free acrylic adhesive, which is designed for excellent environmental resistance and enhanced bond strength. The thick adhesive caliper is ideal for application to a variety of rough or textured surfaces.

## Product Features

• Facestock is topcoated for ink anchorage with a gloss topcoat.
• Liner provides easy sheet processing and is designed for layflat applications that require domed decal molding. The backside of the liner is not printable. Polyester liner contributes to improved diecutting by allowing for deeper diecuts than paper without the added concern of exposing paper fibers. The film liner resists breakage during high speed dispensing. The polyester liner is recommended for clean room 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.

Note: The following data is taken from tests conducted on a limited number of production runs. 3M will continue to test samples from additional manufacturing lots and issue a new Technical Data Sheet if the results change.

## Typical Physical Properties

| Attribute Name | Value |
|---|---|
| Adhesive Type | 200MP Acrylic |
| Facestock | White Gloss Polyester |

| Attribute Name | Value |
|---|---|
| Adhesive Thickness | 0.127 mm (5 mil) |
| Facestock Thickness | 0.051 mm (2 mil) |
| Liner | Clear Polyester Liner |
| Liner Thickness | 0.102 mm (4 mil) |

| Attribute Name | Value |
|---|---|
| Convertability | In order to capture the superior performance properties of 3M™ High Holding Acrylic Adhesive 200MP, thicker calipers are utilized 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

### 90° Peel Adhesion

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

| Dwell Time | Substrate | Value |
|---|---|---|
| 20 min | ABS | 6.0 N/cm (55 oz/in) [1] |
| 20 min | Stainless Steel | 7.1 N/cm (65 oz/in) [1] |
| 72 h | ABS | 6.3 N/cm (58 oz/in) [1] |
| 72 h | Stainless Steel | 11.4 N/cm (104 oz/in) [1] |
| 20 min | Low Surface Energy Plastic | Not Recommended |
| 72 h | Low Surface Energy Plastic | Not Recommended |

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

### 180° Peel Adhesion

Temperature: 23 °C (73 °F)
Dwell Time: 20 min
Test Method: ASTM D3330

| Substrate | Value |
|---|---|
| ABS | 5.7 N/cm (52 oz/in) [1] |
| Stainless Steel | 6.7 N/cm (61 oz/in) [1] |

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

| Attribute Name | Value |
|---|---|
| Minimum Application Temperature | 10 °C (50 °F) |
| Long Term Temperature Resistance | 149 °C (302 °F) [1] |
| Minimum Long Term Temperature Resistance | -40 °C (-40 °F) [1] |

[1] Long Term (day, weeks)

| Attribute Name | Test Method | Value |
|---|---|---|
| Release Range | TLMI | 33 g [1] |

[1] 180° removal, 90 in/min

| Attribute Name | Value |
|---|---|
| Note | Calipers are nominal values |

## Typical Environmental Characteristics

### Humidity Resistance

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

### Temperature Resistance

149 °C (300 °F) for 24 hours: slight yellowing
-40 °C (-40 °F) for 10 days: no significant visual change

## Printing

Topcoated material is receptive to many inks including UV and conventional ink systems. The converter should verify that their ink systems are compatible with the polyester film by testing beforehand. The material is also receptive to other forms of printing including hot stamping. The converter should verify that the method of printing is compatible with the material by testing beforehand.

## Converting

**Die Cutting:**
Die cut with steel rule, flatbed or rotary dies.

**Doming:**
The 0.102 mm (4.0 mil) polyester liner does not deform and provides a smooth surface during the doming process.

## Product Uses

- Barcode labels and rating plates.
- Property identification and asset labeling.
- Warning, instruction, and service labels for durable goods.
- Nameplates for durable goods.
- Substitutes for stamped metal riveted plates.
- Domed decals.

## Handling/Application Information

### Application Techniques

For maximum bond strength, the surface should be clean and dry. Typical cleaning solvents are heptane and isopropyl alcohol.*

Silicone overspray/contamination of the substrate can cause poor adhesion.

Storage conditions recommendation – To minimize the effects of humidity on the products, package the die-cut and printed stock in polyethylene bags. Low density polyethylene (2-4 mils) can help prevent humidity penetration.

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

## 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.

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