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.

추락방지 시스템

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홈페이지 바로가기 →
문서 라이브러리 바로가기 →
시공사례 바로가기 →
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Technical Data Sheet

3M™ Screen Printable Polyester Performance Durable Label Material with Structured Adhesive 7218SA

Additional Info

Product Description

3M™ Screen Printable Polyester Performance Durable Label Materials with Structured Adhesive are durable, high performance materials that offer thermal stability and moisture resistance. These topcoated polyester label stocks utilize 3M™ Adhesive 350, which is designed to permanently bond to high and low surface energy plastics, textured and contoured surfaces, powder coatings, and slightly oily metals.

With unique microchannels throughout the structured adhesive, air flows freely from between the adhesive and substrate. Hand applied labels go on smoothly and stay that way. Even when labels are used on injection-molded plastic parts, bubbles that form from plastic outgassing can be smoothed to regain a neat appearance for the graphic.

Product Features

• Most universal adhesive for label materials.
• Adhesive offers chemical resistance and holding strength, even at high temperatures.
• Liner provides easy sheet processing and is designed for the ultimate in layflat. The backside of this liner is not printable.
• Structured adhesive designed to allow air to flow from between adhesive and substrates so that hand applied labels go on smoothly and stay that way.

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
Facestock	Clear Polyester Gloss TC
Adhesive Coat Weight	1.66 — 2.04 g/100 in²

Attribute Name	Value
Adhesive Thickness	0.028 mm (1.1 mil)
Facestock Thickness	0.05 mm (2 mil)
Liner	90# Embossed Polycoated bleached kraft sheet polyethylene coated on two sides
Liner Thickness	0.2 mm (7.8 mil)

Attribute Name	Value

Attribute Name	Value
Convertability	In order to capture the 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.

Construction Tested

Adhesion properties determined per TLMI Method using 2.0 mil polyester with 1.1 mil of adhesive on a polished stainless steel panel or on the substrates listed in the table below.

Typical Performance Characteristics

180° Peel Adhesion

Temperature: 23 °C (73 °F)
Test Method: TLMI

Substrate	Value
High Density Polyethylene (HDPE)	4.2 N/cm (38.4 oz/in) [1]
Polycarbonate (PC)	5.42 N/cm (49.6 oz/in) [1]
Polypropylene (PP)	5.42 N/cm (49.6 oz/in) [1]
Stainless Steel	6.65 N/cm (60.8 oz/in) [1]

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

Test Method: TLMI

Attribute Name	Temperature	Value
Liner Release	23 °C (73 °F)	2 — 21.6 g/cm (10 — 110 g/2 in) [1]
Shear Adhesion		>100 h [2]

[1] 180° removal, 300 in/min

[2] 0.25 in² x 500g

Attribute Name	Value
Minimum Application Temperature	10 °C (50 °F)
Long Term Temperature Resistance	150 °C (302 °F) [1]
Minimum Long Term Temperature Resistance	-29 °C (-20 °F) [1]

[1] Long Term (day, weeks)

Attribute Name	Value
Note	Calipers are nominal values

Printing

High gloss general purpose topcoating is designed for use with UV, solvent and water-based screen inks. Topcoating will also accept flexo, ion deposition, off set, letter press, hot stamp, and thermal transfer printing. The converter should verify that their ink systems are compatible with the topcoating on the polyester film by testing beforehand. Ink systems recommended for testing are listed below.

UV Screen Inks: Solvent Screen Inks:
ANI Printing Inks (formerly Nazdar’s Akzo Nobel) Uvoscreen II 7700 and System 2
Environmental UV III Screen Pro Sericol’s Polyplast PY, GVYL, VYL, TMI and Techmark
Nazdar 1600

Sericol’s Uviflex, 021 UV, UV and PEL

Water-based Screen Inks: Water-based Flexo Inks:
Nazdar 2700 ANI Printing Inks Hydro Film 4000 Series
Arcar Ultra Film Series 5 Inks

Converting

Die cut with steel rule or flatbed dies. The 90# lay-flat liner also allows kiss cutting and back splitting. The converter can cut through the polyester facestock without cutting through the liner. Care should be taken to process this liner through rotary die cutting and stripping operations. If finished labels are applied to substrate by use of application machinery, thorough testing should be completed for compatibility with equipment.

Handling/Application Information

Application Examples

• Nameplates and product ID labels.
• Rating plates.
• Property identification and asset labeling.
• Warning, instruction, and service labels for durable goods, equipment/machinery and outdoor power equipment for lawn and garden.

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 40°F (5°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.

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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