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.

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 →

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English-US

Last Revision Date: September, 2024

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Technical Data Sheet

3M™ Thermal Transfer Acrylate Label Material 3921

Product Details

Product Description

3M™ Thermal Transfer Acrylate Label Material 3921 consists of a non-topcoated acrylate facestock designed for thermal transfer printing and withstand high temperatures and resist chemicals such as those found in the fabrication of printed circuit boards (PCBs).

Product Features

- UL Recognized file MH16411
- Matte white facestock for print contrast and easy readability of barcodes and variable information.
- Acrylic based film for dimensional stability at high temperatures.
- 3M™ Acrylic Adhesive 150 will not degrade when exposed to standard printed circuit board assembly conditions.
- 55# densified kraft liner assures consistent die cutting.

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	#150 Acrylic
Facestock	Matte White Cast Acrylate Film

Attribute Name	Value
Adhesive Thickness	0.025 mm (1 mil)
Facestock Thickness	0.051 mm (2 mil)
Liner	55# Densified Kraft
Liner Thickness	0.076 mm (3 mil)

Typical Performance Characteristics

180° Peel Adhesion

Temperature: 23 °C (73 °F)
Dwell Time: 72 h
Test Method: ASTM D3330

Substrate	Value
Epoxy PC Board	Facestock tore [1]
Polycarbonate (PC)	6.3 N/cm (58 oz/in) [1]
Polypropylene (PP)	5.6 N/cm (51 oz/in) [1]
Stainless Steel	5.8 N/cm (53 oz/in) [1]

[1] 304 mm/min (12 in/min)

Attribute Name	Value
Note	Calipers are nominal values

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

530°F (277°C) for 30 seconds: no significant visual change
500°F (260°C) for 7 minutes: slight browning
-40°F (-40°C) for 24 hours: no significant visual change

Processing

Printing: Facestock is designed for thermal transfer printing. Call 3M Customer Service at 1-800-422-8116 for additional information.

Recommended Ribbons: The following ribbons can be used but may require higher burn temperatures:
Armor:AXR7+, AXR7
Sony:TR4070

Die-cutting: Rotary die cutting is recommended.

Dispensing: Hand dispensing is recommended.

Packaging: Finished labels should be stored in plastic bags.

Handling/Application Information

Application Examples

• Printed circuit board tracking labels that see the following conditions:
• Solder re-flow.
• Top and/or bottom side wave solder.
• Most cleaning processes and chemicals.
• Labeling on parts exposed to high temperatures.

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 PGJI2.MH16411, Printing Materials - Component, ANSI/UL 969

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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