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

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.

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

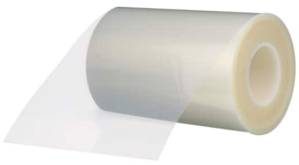
산업용 소재·건축자재

산업용 테이프 · 접착제 · 기능성 소재
구조용 스크류 · 목조건축 자재

SNAPSHOOT
ENGINEERED FOR A SAFER TOMORROW

홈페이지 바로가기 →
문서 라이브러리 바로가기 →
시공사례 바로가기 →
문의하기 →

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

3M™ Electrically Debondable Tape
1100-050

Additional Info

Product Description

3M™ Electrically Debondable Tape 1100-050 is a single layer adhesive transfer tape (ATT) featuring an electrically debondable thin PSA. When bonded to 2 conductive surfaces, the 1100-050 is electrically debondable. The electrically debondable feature enables a clean, quick, and safe breaking of this adhesive bond to enable rework, repair, and recycling of critical components

Product Features

Reliable bonding strength in harsh conditions
Quick, clean removal with low voltages

Typical Physical Properties

Attribute Name	Value
Adhesive Thickness	0.05 mm
Adhesive Type	Specialty Acrylic
Tight Side Release Liner Thickness	0.075 mm
Color	Clear
Easy Side Release Liner Thickness	0.05 mm

Typical Performance Characteristics

Substrate: Stainless Steel
Test Condition: 10 mm/min

Attribute Name	Test Method	Value
Tensile Strength	ASTM D897	1 MPa

Substrate: Stainless Steel
Temperature: 23 °C (73 °F)

Attribute Name	Test Method	Value
180° Peel Adhesion	ASTM D3330	0.7 N/mm [1]

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

Substrate: Stainless Steel
Temperature: 23 °C (73 °F)

Attribute Name	Test Method	Test Condition	Value
Electrical Debond Time (Peel)	ASTM D3330	30V	10 s [1]
Electrical Debond Time (Peel)	ASTM D3330	9V	30 s [1]
Electrical Debond Time (Pushout)	ASTM D897	30V	30 s [2]
Electrical Debond Time (Pushout)	ASTM D897	9V	60 s [2]

[1] Time at indicated voltage resulting in 180° peel test falls below 0.1 N/mm
[2] Time at indicated voltage resulting in tensile pushout test falls below 0.3MPa

Application Guidelines

The 3M™ Electrically Debondable Tape 1100-050 can be debonded by applying a low voltage across the two conductive, bonded surfaces. Current will move through the system causing debond on the low voltage side.

Steps to Debond
From a power source, attach the low potential lead to the substrate that will debond, and the high potenial lead to the substrate that will remain bonded.
Apply a small DC voltage, 5-50V, which will cause a current to flow through the system, creating a weak boundary layer at the PSA interface on the low potential side.
Afterwards, remove the power and open the bond.

Storage and Shelf Life

The shelf life of 3M™ Electrically Debondable Tape 1100-050 is 12 months from the date of manufacture when stored in the original packaging materials below 40°C (104°F). It is best practice to avoid low humidity and/or high temperature storage conditions.

Certificate of Analysis (COA)

The 3M Certificate of Analysis (COA) for this product is established when the product is manufactured and is deemed commercially available from 3M. The COA contains the 3M specifications, test methods and test results for the products performance attributes that the product will be supplied against. Contact your local 3M representative for this product's COA.

Information

Technical Information: The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information.

Product Selection and Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

Warranty, Limited Remedy, and Disclaimer: Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price. Warranty claims must be made within one (1) year from the date of 3M's shipment.

Limitation of Liability: Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.

Disclaimer: 3M industrial and occupational products are intended, labeled, and packaged for sale to trained industrial and occupational customers for workplace use. Unless specifically stated otherwise on the applicable product packaging or literature, these products are not intended, labeled, or packaged for sale to or use by consumers (e.g., for home, personal, primary or secondary school, recreational/sporting, or other uses not described in the applicable product packaging or literature), and must be selected and used in compliance with applicable health and safety regulations and standards (e.g., U.S. OSHA, ANSI), as well as all product literature, user instructions, warnings, and limitations, and the user must take any action required under any recall, field action or other product use notice. Misuse of 3M industrial and occupational products may result in injury, sickness, or death. For help with product selection and use, consult your on-site safety professional, industrial hygienist, or other subject matter expert. For additional product information, visit www.3M.com.