

March, 2009

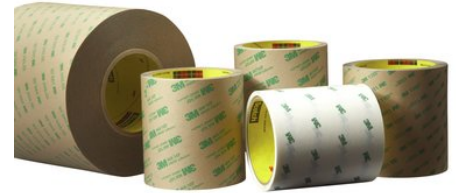
3M™ Adhesive Transfer Tape 9447

Product Description

3M™ Adhesive Transfer Tape 9447 is specifically designed for use with 3M™ Label Component Systems for protected graphics printing of polyester films. Also can be used in constructing custom tamper-indicating labels.

Product Features

- 3M™ Adhesive 320 is used for general purpose applications and offers excellent flagging resistance and adhesion to a variety of substrates.
- The liner provides an ideal surface for rotary die-cutting.
- Adhesive has a temperature range of -40°F (-40°C) to 150°F (65°C) for days or weeks and to 250°F (121°C) for minutes or hours.



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

Property	Values	
Adhesive	#320 "Hi-Tenacity" Acrylic	
Adhesive Thickness	0.025 mm	1 mil
Liner	55# Densified Kraft	
Liner Thickness	0.08 mm	3.2 mil

Typical Performance Characteristics

90° Peel Adhesion		Dwell/Cure Time	Substrate
3.1 N/cm	28 oz/in	20 min	Stainless Steel
3.7 N/cm	34 oz/in	72 hr @ Room Temperature	Stainless Steel
3.8 N/cm	35 oz/in	72 hr @ Room Temperature	Polycarbonate (PC)
1 N/cm	9 oz/in	72 hr @ Room Temperature	Polypropylene (PP)

Property: 90° Peel Adhesion
 Method: ASTM D3330
 Backing: Polyester Film
 notes: 12 in/min (305 mm/min)

Environmental Performance (90° Peel)		Environmental Condition
2.2 N/cm	20 oz/in	Unleaded Gas at 1 Hour Room Temperature
2.6 N/cm	24 oz/in	MEK at 1 Hour Room Temperature
3.1 N/cm	28 oz/in	Freon TF at 1 Hour Room Temperature
3.3 N/cm	30 oz/in	Weak Acid (pH 4) at 4 Hours Room Temperature
2.7 N/cm	25 oz/in	Weak Base (pH 10) at 4 Hours Room Temperature
4.0 N/cm	37 oz/in	Oil (10W30) at 72 Hours 120°F(49°C)
3.9 N/cm	36 oz/in	Water – 100 hours, Room Temperature
6.1 N/cm	56 oz/in	7 Days at 90°F(32°C) and 90% Relative Humidity
4.4 N/cm	40 oz/in	Temperature Cycling: 4 Hours at 158°F (70°C) 4 Hours at -20°F (-29°C) 16 Hours at Room Temperature Repeat three times

Property: Environmental Performance (90° Peel)
 Substrate: Aluminum
 notes: The properties defined are based on the attachment of impervious faceplate materials (such as polyester) to an aluminum test surface. 12 inches/minute (305 mm/min).

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Processing

For processing instructions, refer to the “Label Component System Process Guide.”

Handling/Application Information

Application Ideas

- Used to make tamper-indicating labels with Label Component System films and solutions. These labels may be used as seals for over-the-counter drugs, banking envelopes, non-transferable automobile inspection labels and a variety of other applications.
- A component in the construction of labels with protected, or sub-surface printed graphics, used in harsh environments such as automotive under hood or outdoor environments.

Storage and Shelf Life

Store at room temperature conditions of 72°F (22°C) and 50% relative humidity.
Product retains its performance and properties for 24 months from date of manufacture.

Information

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Trademarks

3M is a trademark of 3M Company.

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References

Safety Data Sheet (SDS)

https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=9447

ISO Statement

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001 standards.

Recognition/Certification

MSDS: 3M has not prepared an MSDS for these products which are not subjected to the MSDS requirements of the Occupational Safety and Health Administration's Hazard Communication Standard, 29 C.F.R. 1910.1200(b)(6)(v). When used under reasonable conditions or in accordance with the 3M directions for use, these products should not present a health and safety hazard. However, use or processing of the products in a manner not in accordance with the directions for use may affect their performance and present potential health and safety hazards. TSCA: These products are defined as articles under the Toxic Substances Control Act and therefore, are exempt from inventory listing requirements.



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