



Adhesive Transfer Tape

9447

Technical Data

March, 2009

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 Construction	Adhesive:	1.0 mil (25 microns) #320 "Hi-Tenacity" Acrylic
	Liner:	3.2 mil (80 microns) 55# Densified Kraft

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.

Applications

- 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.

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Physical Properties

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

ASTM D-3330 (modified)
(90 degree peel, 12"/min. 305 mm/min.)
2 mil polyester to stainless steel:

	20 Minute Dwell Oz./In.
	28

2 mil polyester to various surfaces:

	72 Hour Dwell at Room Temp. Oz./In.
Stainless Steel (Metal)	34
Polycarbonate (High Surface Energy Plastics)	35
Polypropylene (Low Surface Energy Plastics)	9

Environmental Performance

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

The properties defined are based on the attachment of impervious faceplate materials (such as polyester) to an aluminum test surface. Values are listed in ounces per inch based on a 90 degree peel at 12 inches/minute (305 mm/min.).

Unleaded Gas at 1 Hr. (Room Temp.)	20
MEK at 1 Hr. Room Temp.	24
Freon TF at 1 Hr. Room Temp.	28
Weak Acid (pH 4) at 4 Hrs. Room Temp.	30
Weak Base (pH 10) at 4 Hrs. Room Temp.	25
Oil (10W30) at 72 Hrs. 120°F (49°C)	37
Water at 100 Hrs. Room Temp.	36
7 Days at 90°F (32°C) and 90% Relative Humidity	56
Temperature Cycling: 4 Hrs. at 158°F (70°C) 4 Hrs. at -20°F (-29°C) 16 Hrs. at Room Temp. Repeat three times	40

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

Storage Store at room temperature conditions of 72°F (22°C) and 50% relative humidity.

Shelf Life Product retains its performance and properties for two years from date of manufacture.

**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.

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ISO 9001:2000

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards.



Industrial Adhesives and Tapes Division

3M Center, Building 225-3S-06
St. Paul, MN 55144-1000
800-362-3550 • 877-369-2923 (Fax)
www.3M.com/industrial



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