



# Adhesive Transfer Tape

## 9447

### Technical Data

March, 2009

<b>Description</b>	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.
--------------------	---

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

<b>Features</b>	<ul style="list-style-type: none"><li>• 3M™ Adhesive 320 is used for general purpose applications and offers excellent flagging resistance and adhesion to a variety of substrates.</li><li>• The liner provides an ideal surface for rotary die-cutting.</li><li>• 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.</li></ul>
-----------------	--

<b>Applications</b>	<ul style="list-style-type: none"><li>• 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.</li><li>• 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.</li></ul>
---------------------	---

# 3M™ Adhesive Transfer Tape

## 9447

### 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

# 3M™ Adhesive Transfer Tape

## 9447

<b>Processing</b>	For processing instructions, refer to the “Label Component System Process Guide.”
<b>Storage</b>	Store at room temperature conditions of 72°F (22°C) and 50% relative humidity.
<b>Shelf Life</b>	Product retains its performance and properties for two years from date of manufacture.
<b>Recognition/ Certification</b>	<p><b>MSDS:</b> 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.</p> <p><b>TSCA:</b> These products are defined as articles under the Toxic Substances Control Act and therefore, are exempt from inventory listing requirements.</p>
<b>Technical Information</b>	The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.
<b>Product Use</b>	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. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.
<b>Warranty, Limited Remedy, and Disclaimer</b>	Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 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 OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. If the 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.
<b>Limitation of Liability</b>	Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

**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](http://www.3M.com/industrial)



*Recycled Paper  
40% pre-consumer  
10% post-consumer*

3M is a trademark of 3M Company.  
Printed in U.S.A.  
©3M 2009 70-0707-1190-1 (3/09)