



# Adhesive Transfer Tape with Adhesive 100MP

## 9437

Technical Data

March, 2004

**Product Description** 3M™ Adhesive Transfer Tape 9437 with 3M™ Adhesive 100MP is designed for harsh environments such as automotive, aerospace and outdoor applications.

### Construction

Adhesive:	2.0 mils (51 microns) 100MP
1st Liner:	4.0 mils (102 microns) 58# Polycoated Kraft (Removed first)
2nd Liner:	1.5 mils (37.5 microns) Polyester (Removed second)

### Features

- Excellent temperature and chemical resistance.
- Exceptional shear holding strength at elevated temperatures.
- Strong bond to metals and high surface energy plastics (e.g. ABS, polycarbonate).
- Polyester liner provides excellent die-cutting surface.

### 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.)  
on 2 mil aluminum

Surface	20 Minute Dwell	
	Oz./In.	N/100 mm
Stainless Steel	48	53

Surface	72 Hour Dwell		Ultimate Bond	
	Oz./In.	N/100 mm	Oz./In.	N/100 mm
Stainless Steel	73	80	125	137
Polycarbonate	47	51	–	–
Polypropylene	17	19	–	–

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## 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 aluminum) to an aluminum test surface.

**Bond Build-up:** The bond strength of 3M™ Adhesive 100MP increases as a function of time and temperature.

**Humidity Resistance:** High humidity has a minimal effect on adhesive performance. Bond strengths are generally higher after exposure for 7 days at 90°F (32°C) and 90% relative humidity.

**U.V. Resistance:** When properly applied, nameplates and decorative trim parts are not adversely affected by outdoor exposure.

**Water Resistance:** Immersion in water has no appreciable effect on the bond strength. After 100 hours in room temperature water, the bond actually shows an increase in strength.

**Temperature Cycling Resistance:** Bond strength generally increases after cycling four times through: 4 hours at 158°F (70°C)  
4 hours at -20°F (-29°C)  
16 hours at room temperature

**Chemical Resistance:** When properly applied, labels will hold securely after exposure to numerous chemicals including gasoline, oil, sodium chloride solution, mild acids and alkalis.

**Heat Resistance:** 3M adhesive 100MP is usable for short periods (minutes) at temperatures up to 450°F (232°C) and for intermittent longer periods of time (days) up to 300°F (149°C).

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## Application Techniques

For maximum bond strength the surface should be thoroughly cleaned and dried. Typical cleaning solvents are heptane or isopropyl alcohol.\* This cleaning recommendation may not be compliant with the rules of certain Air Quality Management Districts in California; consult applicable rules before use.

Bond strength also can be improved with firm application pressure and moderate heat, from 100°F (38°C) to 130°F (54°C), causing the adhesive to develop intimate contact with the bonding surface.

**\*Note:** Carefully read and follow the manufacturer's precautions and directions for use when working with solvents.

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**Storage** Store at room temperature conditions of 72°F (22°C) and 50% relative humidity. Storage in plastic bag is recommended.

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**Shelf Life** If stored under proper conditions, product retains its performance and properties for one year from date of manufacture.

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**For Additional Information** To request additional product information or to arrange for sales assistance, call toll free 1-800-223-7427 or visit [www.3M.com/converter](http://www.3M.com/converter). Address correspondence to: 3M Industrial Adhesives and Tapes Division, Building 21-1W-10, 900 Bush Avenue, St. Paul, MN 55144-1000. Our fax number is 651-778-4244. In Canada, phone: 1-800-364-3577. In Puerto Rico, phone: 1-787-750-3000. In Mexico, phone: 52-70-04-00.

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**Recognition/Certification** **MSDS:** 3M has not prepared a MSDS for this product which is 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, this product should not present a health and safety hazard. However, use or processing of the product in a manner not in accordance with the directions for use may affect its performance and present potential health and safety hazards.

**TSCA:** This product is defined as an article under the Toxic Substances Control Act and therefore, it is exempt from inventory listing requirements.

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**Product Use** All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

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



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