

# Technical data sheet



Product: 9472LE

Manufacturer: 3M DEUTSCHLAND GMBH

Product group: KLEBEBAND

Article group: DOPPELSEITIG

Download: 26.05.2026

## 3M™ ADHESIVE TRANSFER TAPE 9472LE

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# Technical Data Sheet

## 3M™ Adhesive Transfer Tape 9472LE

### Product Description

Finite Element Analysis (FEA) data is available for this product at: [3m.com/FEA](https://www.3m.com/FEA)

3M™ Adhesive Transfer Tapes with 3M™ Low Surface Energy Acrylic Adhesive 300LSE provides high bond strength to most surfaces, including many low surface energy plastics such as polypropylene and powder coated paints. The acrylic adhesive also provides excellent adhesion to surfaces contaminated lightly with oil typically used with machine parts.

### Product Features

- 3M™ Adhesive 300LSE is a hi-strength acrylic adhesive that provides a very high bond strength to most surfaces.
- Excellent bond to low surface energy plastics such as polypropylene and powder coatings.
- Excellent adhesion to lightly oiled surfaces typical of machine parts.
- Thickness range of 2.3, 3.6 and 5.2 mils for use on smooth, or rough surfaces.

### 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

Attribute Name	Test Method	Value
Adhesive Type		3M High Strength Acrylic Adhesive 300LSE
Total Tape Thickness	ASTM D3652	0.132 mm
Liner Print		300LSE
Liner		58# Polycoated Kraft Paper (PCK)
Liner Thickness		0.107 mm

### Typical Performance Characteristics

#### 90° Peel Adhesion

Backing: 2 mil Aluminum Foil  
Test Method: ASTM D3330

Dwell Time	Temperature	Substrate	Value
15 min	23 °C	ABS	11.2 N/cm <sup>1</sup>
15 min	23 °C	Polypropylene (PP)	12.6 N/cm <sup>1</sup>
15 min	23 °C	Stainless Steel	11.9 N/cm <sup>1</sup>
72 h	23 °C	ABS	14 N/cm <sup>1</sup>
72 h	23 °C	Polypropylene (PP)	14.9 N/cm <sup>1</sup>
72 h	22 °C	Stainless Steel	15.3 N/cm <sup>2</sup>

<sup>1</sup> 304 mm/min (12 in/min)

<sup>2</sup> 12 in/min (300 mm/min)

Attribute Name	Value
Short Term Temperature Resistance	149 °C <sup>1</sup>
Long Term Temperature Resistance	93 °C <sup>2</sup>

<sup>1</sup> Short Term (minutes, hour)

<sup>2</sup> Long Term (day, weeks)

## **Typical Environmental Characteristics**

### **Environmental Resistance**

The properties defined are based on the attachment of impervious faceplate materials (such as aluminum) to a stainless steel test surface.

**Bond Build-up:** The bond strength of 3M™ Adhesive 300LSE increased as a function of time and temperature, and has very high initial adhesion.

**Humidity Resistance:** High humidity has a minimal effect on adhesive performance. No significant reduction in bond strength is observed 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 exposure.

**Water Resistance:** Immersion in water has no appreciable effect on the bond strength. After 100 hours at room temperature, the high bond strength is maintained.

**Temperature Cycling Resistance:** High bond strength is maintained after cycling four times through:  
4 hours at 158°F (70°C)  
4 hours at -20°F (-29°C)  
4 hours at 73°F (22°C)

**Chemical Resistance:** When properly applied, nameplates and decorative trim parts will hold securely after exposure to numerous chemicals including oil, mild acids and alkalis.

**Temperature Resistance:** 3M™ Adhesive 300LSE is usable for short periods (minutes, hours) at temperatures up to 300°F (148°C) and for intermittent longer periods of time (days, weeks) up to 200°F (93°C).

**Lower Service Temperature:** -40°F (-40°C).

## **Processing**

**Slitting and die-cutting:** This adhesive is very aggressive and may be difficult to convert depending on your application requirements. Chilling the adhesive between 35°F and 50°F will improve the processability. In addition, dies can be lubricated with evaporative stamping oil. You may also refer to our Technical Bulletin on 3M™ Adhesive 300LSE converting. (70-0707-6205-2)

**Roll Laminating:** A combination of metal and rubber rollers with moderate pressure is recommended. Note: Please refer to the Technical Bulletin on slitting. (70-0709-3905-6)

## **Handling/Application Information**

### **Application Examples**

- Plastic nameplates or graphic overlays for use on low surface energy plastics.
- Waste removed nameplates on a common sheet for ease of application.
- Attaching membrane switch assemblies to powder coated surfaces and low surface energy plastics.
- Graphic overlays with end tabs for easy liner removal.
- Graphic application to surfaces such as wood, fabric, plastic, where very high bond strength is required.
- Attaching identification material to lightly oily surfaces typical of machine parts.

## Application Techniques

For maximum bond strength, the surface should be thoroughly cleaned and dried. Typical cleaning solvents are methyl ethyl ketone for metals or isopropyl alcohol for plastics. Carefully read and follow manufacturer's precautions and directions for use when using cleaning solvents.

Bond strength can also 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.

Ideal tape application temperature range is 70°F to 100°F (21°C to 38°C). Initial tape application to surfaces at temperatures below 50°F (10°C) is not recommended for most pressure-sensitive adhesives because the adhesive becomes too firm to adhere readily. However, once properly applied, low temperature holding is generally satisfactory.

## Industry Specifications

### FDA Statement

This product might be suitable for use in indirect food contact applications. Please see the applicable Regulatory Data Sheet for more information relating to FDA compliance.

## Storage and Shelf Life

Store under normal conditions of 16° to 27°C (60° to 80°F) and 40 to 60% relative humidity in the original packaging, out of direct sunlight. For best performance, use this product within 24 months from date of manufacture.

## Available Sizes

Attribute Name	Value
Core Size (ID)	76.2 mm
Limitations	1/2 in to 63/64 in: Maximum 180 yd (165 m) 1 in to 54 in: Maximum 360 yd (329 m)
Maximum Slit Width	1219 mm
Minimum Slit Width	12.7 mm
Normal Slitting Tolerance	±0.8 mm

## Recognition/Certification

**TSCA:** These products are defined as articles under the Toxic Substances Control Act and therefore, are exempt from inventory listing requirements.

**MSDS:** These products are not subject 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, the 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.

**Note:** One of 3M's core values is to respect our social and physical environment. 3M is committed to comply with ever-changing, global, regulatory and consumer environmental, health, and safety (EHS) requirements. As a service to our customers, 3M is providing information on the regulatory status of many 3M products. Further regulation information including that for OSHA, USPCSI, FDA, California Proposition 65, REACH and RoHS, can be found at [3M.com/regs](http://3M.com/regs).

## Automotive Disclaimer

### Select Automotive Applications:

This product is an industrial product and has not been designed or tested for use in certain automotive applications, such as automotive electric powertrain battery or high voltage applications, which may require the product to be manufactured in a IATF certified facility, meet a Ppk of 1.33 for all properties, undergo an automotive production part approval process (PPAP), or fully adhere to automotive design or quality system requirements (e.g., IATF 16949 or VDA 6.3). Customer assumes all responsibility and risk if customer chooses to use this product in these applications.

## Information

Precautionary Information: Refer to product label and Material Safety Data Sheet for health and safety information before using the product. For information, please contact your local 3M Office. You can click or scan QR code to see contact detail or visit [www.3M.com](http://www.3M.com) Important Information: 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 or application. All questions of liability relating to this product are governed by the terms of the sale subject, where applicable, to the prevailing law. Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine

their suitability for your applications. This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations.

## **ISO Statement**

This product was manufactured under a 3M quality system registered to ISO 9001 standards.

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