

Technical data sheet



Product: 7952MP

Manufacturer: 3M DEUTSCHLAND GMBH

Product group: KLEBEBAND

Article group: DOPPELSEITIG

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3M™ ADHESIVE TRANSFER TAPE 7952MP

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Technical Data Sheet

3M™ Adhesive Transfer Tape 7952MP



[Product Details](#)

Product Description

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

3M™ High Performance Acrylic Adhesive 200MP is a popular choice for graphic attachment and general industrial joining applications. It provides outstanding adhesion to metal and high surface energy plastics. This adhesive provides some initial repositionability for placement accuracy when bonding to plastics. It also performs well after exposure to humidity and hot/cold cycles.

Product Features

- Up to 400°F short-term heat resistance
- Excellent solvent resistance
- Excellent shear strength to resist slippage and edge lifting

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		200 MP Acrylic
Total Tape Thickness	ASTM D3652	0.06 mm
Liner Print		200MP
Primary Liner Type		58# Polycoated Kraft Paper (PCK) ¹
Secondary Liner Type		58# Polycoated Kraft Paper (PCK) ¹
Primary Liner Thickness		0.11 mm
Secondary Liner Thickness		0.11 mm
Primary Liner Color		Tan
Secondary Liner Color		Tan

¹ Inner liner is primary (stays with die-cut part); Outer liner is secondary (removed first)

Typical Performance Characteristics

Dwell Time: 72 h

Backing: 2 mil Aluminum Foil

Test Method: ASTM D3330

Attribute Name	Temperature	Substrate	Value
90° Peel Adhesion	22 °C	Stainless Steel	10 N/cm ¹
90° Peel Adhesion	70 °C	Stainless Steel	16.7 N/cm ²
180° Peel Adhesion	23 °C	Stainless Steel	9.6 N/cm ²
90° Peel Adhesion	23 °C	ABS	2.4 N/cm ²
90° Peel Adhesion	23 °C	Acrylic (PMMA)	7 N/cm ²
90° Peel Adhesion	23 °C	Aluminum	7 N/cm ²
90° Peel Adhesion	23 °C	Glass	9.9 N/cm ²
90° Peel Adhesion	23 °C	Polycarbonate (PC)	7.8 N/cm ²

Attribute Name	Temperature	Substrate	Value
90° Peel Adhesion	23 °C	Polyvinyl chloride (PVC)	4.4 N/cm ²

¹ 12 in/min (300 mm/min)

² 304 mm/min (12 in/min)

Static Shear

Test Condition: 1000 g

Dwell Time: 72 h

Test Method: ASTM D3654

Temperature	Substrate	Backing	Value
23 °C	Stainless Steel	2 mil Aluminum Foil	10,000 min ¹
70 °C			10,000 min ¹

¹ 25 x 25 mm (1 in x 1 in) sample area, test terminated after 10,000 minutes

Attribute Name	Test Method	Dwell Time	Temperature	Environmental Condition	Test Condition	Substrate	Backing	Value
Short Term Temperature Resistance								149 °C ¹
Short Term Temperature Resistance	ASTM D3654	72 h	23 °C	204 °C (400 °F)	500 g wt for at least 60 min	Stainless Steel	2 mil Aluminum Foil	60 min ²
Long Term Temperature Resistance								93 °C ³
Long Term Temperature Resistance	ASTM D3654	72 h	23 °C	149 °C (300 °F)	500 g wt for at least 10,000 min	Stainless Steel	2 mil Aluminum Foil	10,000 ²

¹ Short Term (minutes, hour)

² 6.5 cm² (1 in²) Sample area

³ Long Term (day, weeks)

Typical Environmental Characteristics

Environmental Resistance

Humidity Resistance - High humidity has a minimal effect on adhesive performance. Bond strength shows no significant reduction after exposure for 7 days at 90°F (32°C) and 90% relative humidity.

UV 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 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, nameplate and decorative trim parts will hold securely after exposure to numerous chemicals including oil, mild acids and alkalis.

Bond Build-up: The bond strength of 3M™ High Performance Acrylic Adhesive 200MP increases as a function of time and temperature

Temperature/Heat Resistance: 3M™ High Performance Acrylic Adhesive 200MP is usable for short periods (minutes, hours) at temperatures up to 400°F (204°C) and for intermittent longer periods (days, weeks) up to 300°F (149°C).

Lower Temperature Service Limit: The glass transition temperature for 3M™ High Performance Acrylic Adhesive 200MP is -31°F (-35°C). Many applications survive below this temperature (factors affecting successful applications include: materials being bonded, dwell at RT before cold exposure, and stress below the TG [i.e. expansion/contraction stresses, impact]). Optimum conditions are: bonding high surface energy materials, longer time at RT before cold exposure, and little or no stress below the TG. The lowest service temperature is -40°F (-40°C).

Electrical and Thermal Properties

Temperature: 43 °C

Attribute Name	Test Method	Value
Thermal Conductivity	ASTM C518	0.18 W/m/K ¹

¹ results listed are at 43 °C (109 °F)

Attribute Name	Test Method	Temperature	Test Condition	Value
Dielectric Constant	ASTM D150	23 °C	1 KHz	2.72
Dissipation Factor				0.017
Dielectric Strength	ASTM D149		500 vac, rms[60 hz/sec]	690 V/mil
Insulation Resistance	Mil-I-46058C		test voltage = 100 VDC	>2.5 x 10 ¹⁶ Ω
Breakdown Voltage				1,760 V

Handling/Application Information

Application Examples

- Long term bonding of graphic nameplates and overlays (“subsurface” printed polycarbonate or polyester) to metal and high surface energy plastics in the aerospace, medical and industrial equipment, automotive, appliance and electronics markets.
- Bonding metal nameplates and rating plates in the aerospace, medical and industrial equipment, automotive, appliance and electronics markets.
- Bonding graphic overlays for membrane switches and for bonding the complete switch to the equipment surface.
- High speed processing of parts in the medical, telecommunications and electronics markets (medical components, durable labels, and flexible circuits).
- Lamination to industrial foams for rotary die-cutting of small gaskets for industrial and electronics markets.

Application Techniques

For maximum bond strength (during installation of the final part) the surface should be thoroughly cleaned and dried. Typical cleaning solvents are heptane (for oily surfaces) or isopropyl alcohol for plastics. Use reagent grade solvents since common household materials like rubbing alcohol frequently contain oils to minimize the drying affect on skin and can interfere with the performance of a pressure-sensitive adhesive.

*Note: Carefully read and follow the manufacturer’s precautions and directions for use when working with solvents. These cleaning recommendations may not be in compliance with the rules of certain air quality management districts in California; consult applicable rules before use.

It is necessary to provide pressure during lamination (1.5-20 pli recommended) and during final part installation (10-15 psi) to allow the adhesive to come into direct contact with the substrate. Using a hard edged plastic tool, which is the full width of the laminated part, helps to provide the necessary pressure at the point of lamination. Heat can increase bond strength when bonding to metal parts (generally this same increase is observed at room temperature over longer times, weeks). For plastic parts, the bond strength is not enhanced with the addition of heat.

The ideal adhesive application temperature range is 60°F (15.6°C) to 100°F (38°C). Application is not recommended if the surface temperature is below 50°F (10°C) because the adhesive becomes too firm to adhere readily. Once properly applied, at the recommended application temperature, low temperature holding is generally satisfactory (please refer to section VII of the Typical Physical Properties and Performance Characteristics).

When bonding a thin, smooth, flexible material to a smooth surface, it is generally acceptable to use 2 mils of 3M™ Adhesive 200MP. If a texture is visible on one or both surfaces, the 5 mil 3M adhesive 200MP would be suggested. If both materials are rigid, it may be necessary to use a thicker adhesive to successfully bond the components. 3M™ VHB™ Acrylic Foam Tapes may be required (please refer to the data page 70-0709-3830-6).

To apply adhesives in a wide web format, lamination equipment is required to ensure acceptable quality. To learn more about working with pressure-sensitive adhesives please refer to technical bulletin, Lamination Techniques for Converters of Laminating Adhesives (70-0704-1430-8). For additional dispenser information, contact your local 3M office

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.

Product Family

This product is a part of the the 200MP Transfer Tape Family which includes: 3M™ Adhesive Transfer Tape Double Lined 7952MP, 3M™ Adhesive Transfer Tape Double Lined 7955MP, 3M™ Adhesive Transfer Tape Double Lined 7962MP, 3M™ Adhesive Transfer Tape Double Lined 7965MP, 3M™ Adhesive Transfer Tape 467MC, 3M™ Adhesive Transfer Tape 467MP, 3M™ Adhesive Transfer Tape 467MPF, 3M™ Adhesive Transfer Tape 468MC, 3M™ Adhesive Transfer Tape 468MP, 3M™ Adhesive Transfer Tape 468MPF

Recognition/Certification

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

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.

UL: These products have been recognized by Underwriters Laboratories, Inc. under Standard UL 969, Marking and Labeling Systems Materials Component. For more information on the UL Certification, please visit the website at <http://www.3M.com/converter>, select UL Recognized Materials, then select the specific product area.

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, USCPSI, FDA, California Proposition 65, READY and RoHS, can be found at 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 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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