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Technical Data | May 2026

3M™ Electrically Conductive Double-Sided Tape 9772 Series

Product Description

3M™ Electrically Conductive Double-Sided Tape 9772 Series is a family of XYZ-axis electrically conductive pressure sensitive adhesive (PSA) tapes. 3M tape 9772 series consist of tapes with a conductive carrier (copper foil) and an electrically conductive adhesive that are designed for PSA attachment to a grounding surface. The tapes are acrylic based adhesive solutions that offer high adhesion and good grounding performance to many surface types. The 3M tape 9772 series helps provide improved electrical performance and reliable small size contacts in a thinner format, making it an excellent solution for grounding, PSA attachment and EMI shielding designs.

Key Features

- Excellent XYZ-axis conductivity through the adhesive
- Excellent conformability and quick bonding
- Good EMI shielding in bond line gap
- Improved electrical contact to small size areas
- Easy handling and workability

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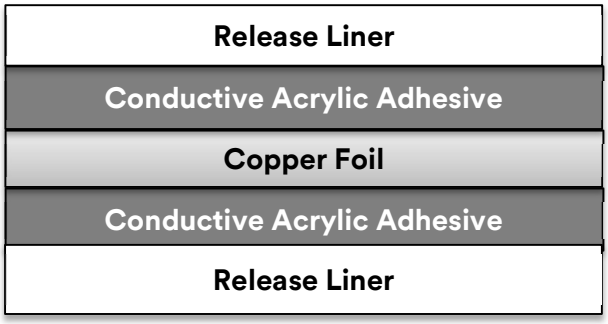

Product Construction / Materials Description

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

3M™ Electrically Conductive Double-Sided Tape 9772 Series	
Property	**Value**
Color	Copper
Conductive Adhesive Type	Acrylic conductive adhesive
Release Liner	Transparent PET release liner

Note: The product is available in 500 mm x 100 meters. Contact your local 3M representative for more information.

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Typical Physical Properties and Performance Characteristics

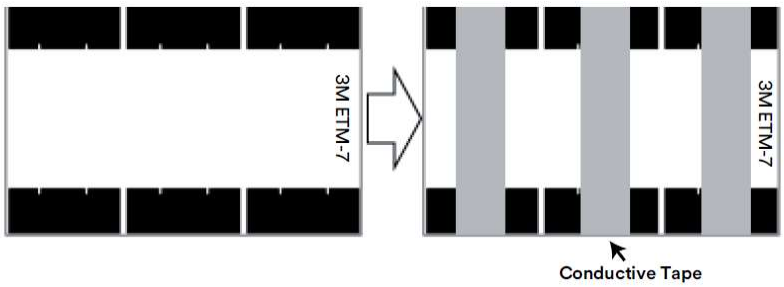
Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes. Final product specifications and testing methods will be outlined in the product's Certificate of Analysis (COA) that is shipped with the commercialized product.

3M™ Electrically Conductive Double-Sided Tape 9772 Series		
Properties	**Test Method**	**Typical Value***
Thickness: 3M Tape 9772-10 3M Tape 9772-20 3M Tape 9772-25 3M Tape 9772-30 3M Tape 9772-35 3M Tape 9772-50	ASTM method D1000*	 0.011 mm 0.020 mm 0.024 mm 0.030 mm 0.035 mm 0.050 mm
180° peel adhesion to SUS (FS and BS side): 3M Tape 9772-10 3M Tape 9772-20 3M Tape 9772-25 3M Tape 9772-30 3M Tape 9772-35 3M Tape 9772-50	ASTM method D1000*	 800 gf/inch 900 gf/inch 1000 gf/inch 1100 gf/inch 1100 gf/inch 1000 gf/inch
Electrical resistance through adhesive (FS and BS side)	3M test method ETM-7**	0.015 ohms

* Tested in accordance with ASTM D1000 test method.
** 3M test methods as described below.

ETM-7: XY-Axis Electrical Resistance through Adhesive**

Place a strip of the single (double) side conductive tape in 10 mm x 50 mm with adhesive side down between the electrodes on ETM-7 testing board. After initial hand lamination to provide for a 10 mm x 10 mm contact area between the tape and electrodes, apply a 2kg rubber roller across the tape one time. Application method simulates a typical manufacturing process that might be used to apply the tapes to a surface. After 20 minutes of dwell time, the DC resistance between the electrodes is measured with a micro-ohm meter. The resistance results are recorded after 5 ~ 30 seconds for initial resistance.



Shielding Effectiveness

Many factors determine the shielding effectiveness of a conductive adhesive tape, including type and thickness of the conductive layers, adhesive strength, degree of contact, smoothness of application surface, test frequency, etc. For 3M™ Electrically Conductive Double-Sided Tape 9772 Series, the typical shielding effectiveness is expected to be in the range of 40 dB to 60 dB, using a standard EMI shielding test methods and through the thickness of the sample tested.

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Applications

3M™ Electrically Conductive Double-Sided Tape 9772 Series is typically used for applications requiring excellent electrical conductivity from the application substrate through the adhesive to a second substrate. Common uses include grounding and EMI shielding in equipment, components, etc.

Application Techniques

Note: Carefully read and follow the manufacturer's precautions and directions for use when working with solvents. Tape application below 10°C (50°F) is not suggested. Once properly applied, low temperature holding power is generally satisfactory.

The 3M™ Electrically Conductive Double-Sided Tape 9772 Series bond strength depends on the amount of adhesive-to-surface contact developed during application and substrate type and surface conditions.

1) Firm application pressure helps develop better wet-out and adhesive contact and may lead to improved bond strength as well as electrical conductivity. Pressure must be applied to the bond area after assembly to ensure sufficient wet-out of the 3M tape series 9772 adhesive to the substrates and to engage the conductive acrylic adhesive fillers with the substrates to make electrical connection. Mechanical pressure (roller, metal bar) or finger pressure at 5-15 psi. (Optimally the application conditions are determined via a set of Design of Experiments (DOE) using a range of application pressures, dwell time and temperatures (suggested initial range might include 5-15 psi, 2-5 seconds, 21°C-38°C).
2) Heat may be applied simultaneously with pressure to improve wetting, final bond strength and electrical conductivity. Suggested temperature range to evaluate is in the 38°C-60°C range.
3) To obtain optimum adhesion, the bonding surfaces must be clean, dry and well unified. Some typical surface cleaning solvents are isopropyl alcohol or heptane.

Storage and Shelf Life

The shelf life of 3M™ Electrically Conductive Double-Sided Tape 9772 Series is 12 months (9 months for 9772-10) from the date of manufacture when stored in roll form, in the original packaging materials, and stored at 10°C-25°C (50°F-77°F) and <60% relative humidity.

Once the tape is removed from the original packaging materials, the tape should be converted, shipped and stored in the prescribed temperature and humidity-controlled conditions to ensure stable tape performance. Adhesion, tack, conductivity, and reliability of the tape in an application can be reduced if the tape is not controlled to the prescribed handling and usage conditions.

In addition, in some applications the tape may be converted (die cut, laminated to other materials or release/processing liners) in such a manner that the release liner that the product tape is shipped with is removed and the different release or processing/carrier liner is applied to the adhesive side of the tape. The new release/carrier liner may transfer release agents (silicone, fluoropolymer, etc.) to the tape's adhesive surface and thus reduce the applied tack and/or adhesion strength of the tape in the end user's application to a surface versus when no release/carrier liner changes have occurred. Any proposed release/carrier liners to be used with the tape should be tested with the tape to ensure that the tape's performance is not negatively impacted for the intended end use application and that shelf life is not negatively impacted. If a poor performing liner is selected for a liner exchange, it can have a significant negative impact on the conductive tape's adhesion/tack/electrical performance and/or significantly reduce shelf life.

Certificate of Analysis (COA)

The 3M Certificate of Analysis (COA) for this product is established when the product is manufactured and is deemed commercially available from 3M. The COA contains the 3M specifications, test methods and test results for the product's performance attributes that the product will be supplied against. Contact your local 3M representative for this product's COA.

This technical data sheet may contain preliminary data and may not match the COA specification limits and/or test methods that may be used for COA purposes.

Regulatory: For regulatory information about this product, contact your 3M representative.

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