



MGO 1317

Magnet Tape

1. Product Description

3M Magnet Tape is a flexible, polymer bonded product coated on one side with a pressure sensitive adhesive. The magnetic material is made using a special process that orients barium ferrite crystals in the polymer binder during manufacture. This orientation process yields a magnet with excellent magnetic properties.

The high energy magnet tape is then permanently magnetised with multiple north and south poles along its length, providing a minimum holding force of 70 g/mm² (16 ounces per square inch).

The strong holding power of 3M Magnet Tape allows its use in relatively narrow widths where it combines economy with exceptional performance capabilities. 3M Magnet Tape is permanently magnetic, meaning it can be bent, twisted and flexed without loss of magnetic energy and will not lose its magnetic strength when dropped or struck. The product also conforms readily to irregular surfaces without cracking.

3M Magnet Tape has a high-tack pressure-sensitive adhesive layer on one side, protected by a peel-away backing. The adhesive will adhere to a wide variety of surfaces including most plastics, wood and metal. The non-adhesive side can be used to hold small ferrous objects such as screw drivers and other tools. The product also saves time by holding small parts during assembly. 3M Magnet Tape is a versatile holding material, which can be used effectively on both metal and non-metal surfaces.

2. Product Features

Temperature Resistance

3M Magnet Tape retains its flexibility even in cold weather. The product performs well indoors or out, in hot or cold climates. Extensive testing in 3M laboratories at temperatures ranging from - 40 °C to + 71 °C (- 40 °F to + 160 °F) has documented the broad range of capability of both the adhesive and the magnetic holding force.

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Clean, Safe Handling

The magnetic side of 3M Magnet Tape is specially coated to ensure clean attachment. This coating also resists the external physical conditions that might otherwise result in adhesive bonding between magnet and application surface. Newly painted surfaces should be allowed adequate drying time before the application of magnet tape.

Application

3M Magnet Tape is easily cut with scissors or a knife. Adhesive mounting surfaces should be free of dirt, grease, oil and solvent. Following placement, the magnet tape should be pressed down firmly with a roller.

3. Typical Properties

Data is not for specifications. Values are typical and should not be considered minimum or maximum. Properties measured at room temperature ~23 °C unless otherwise stated.

Physical Properties	Typical Value	
Adhesive Type	Rubber	
Thickness (ASTM D-3652)	1,55 mm	
Magnetic Holding Force	70 g/cm ² (16 oz/in ²) to bare steel	
Adhesion to Stainless Steel	7.6 N/10mm (60 oz/in)	
Sliding Force	35g/cm ² (8 oz/in ²) - to polished steel	
Flexibility	1.55 mm thick - Bend around 6.3mm diameter mandrel	
Temperature Performance	- 40 °C to + 71 °C (- 40 °F to + 160 °F)	
Chemical Resistance	Weather	Excellent
	Water	Excellent
	Ozone	Excellent
	Dilute Acids	Good
	Dilute Bases	Good
	Oils & Common Solvents	Poor

4. User Information

4.1 Application Techniques

- Bond strength is dependent upon the amount of adhesive-to-surface contact developed. Firm application pressure develops better adhesive contact to improve bond strength.

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2. To obtain optimum adhesion, the bonding surfaces must be clean, dry and well unified. A typical surface cleaning solvent is isopropyl alcohol and water. Use proper safety precautions for handling solvents.
3. Ideal tape application temperature range is 21 °C to 38 °C (70 °F to 100 °F). Initial tape application to surfaces at temperatures below 10 °C (50 °F) is not recommended because the adhesive becomes too firm to adhere readily. However once properly applied low temperature holding is generally satisfactory.

4.2 Shelf Life and Storage

This product has a 12-month shelf life from date of manufacture when stored in a humidity controlled area (10 °C to 27 °C and <75 % relative humidity).

4.3 Availability

For availability, please contact your local distributor.

5. Additional Information

To request additional product information, see address below.

Important Notice

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 evaluates the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method or application.

Values presented have been determined by standard test methods and are average values not meant to be used for specification purposes.

All questions of warranty and liability relating to 3M products are governed by the terms of the respective sale subject, where applicable, to the prevailing law.

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