



Technical Data Sheet

3M™ Durable Floor Marking Tape 971L

Product description

The durable 3M™ 971L floor marking tapes are specifically designed to withstand the stresses of typical use. Warehouse equipment and typical traffic patterns in shipping, receiving, and storage areas were developed. The combination Made from synthetic rubber and a thick vinyl backing layer, it ensures strong adhesion to the floor and allows Simultaneously, it allows for residue-free removal in one piece. The tape is ideally suited for streamlined 5S initiatives. Production.

Product features

- The stable vinyl backing is abrasion-resistant against forklifts and heavy use, while retaining its Colors.
- The unique adhesive ensures strong adhesion to most floors and offers excellent holding power. At the same time, the tape can be removed from many surfaces without leaving any residue.
- The pre-applied tape is suitable for standard cleaning and resistant to many cleaning agents.
- The tape can be applied by hand or with the 3M™ M1 road marking applicator (with liner reel) be applied.
- The protective liner can be easily removed from the adhesive.
- The 971L is available in many colors and is ideally suited for 5S labeling in the Production areas.

Note regarding technical information

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

Typical physical properties

Attribute label	Test method	Value
Color		Yellow, white, red, blue, orange and Green
Adhesive type		Rubber
carrier		Vinyl
Total adhesive tape thickness	ASTM D3652	0.49 mm
Linerdicke		0.05 mm

Typical performance characteristics

Attribute designation	Test method	Temperature	Substrat	Value
g				
180° Schälwiderstand ASTM	D3330	23 °C	stainless steel	4.1 N/cm ¹
Fracture elongation	ASTM D3759			250 %
Tensile strength	ASTM D3759			120 N/cm
Temperature range your				<49 °C

¹ 300 mm/min (12 inches/min)

Information on handling/application

Surface pretreatment

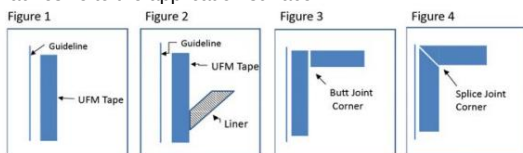
1. Surfaces to be marked with 3M™ Durable Floor Marking Tape should be as clean, dry, and smooth as possible. Floors may need to be cleaned to remove all traces of oil, grease, moisture, and build-up of waxes, coatings, finishes, as well as dust, dirt, and other debris.
2. Choose cleaning solutions that leave no residue or wax on the surface where the tape will be applied. Always allow sufficient time for the cleaning solution to dry thoroughly before applying the tape.
3. Freshly sealed surfaces, including but not limited to concrete, painted or waxed floors, should

Allow to dry thoroughly before applying the adhesive tape.

Note: Be sure to follow the manufacturer's precautions and instructions when using cleaning agents or sealants. Wear appropriate personal protective equipment when sandblasting, scraping, grinding, or sanding.

Application techniques

1. After completing the surface preparation process, 3M™ Durable Floor Marking Tape can be applied to the surface of the intended application. Optimal adhesion is achieved when both the tape and the intended surface are within a temperature range of 16° to 27°C.
2. When applying the adhesive tape in long straight lines, a chalk line can be used as a guide (Figure 1).
3. To apply the adhesive tape, remove a piece of the liner from one end and firmly attach it to the floor. Carefully pull the liner diagonally away from the tape while applying it by hand, and follow the chalk line (Figure 2).
4. Where joints are required, such as at corners and connections, a miter joint or butt joint is recommended (see Figure 3 and Figure 4).
5. Once the tape has been applied, a weighted roller, hand roller or a 3M™ PA1-B Blue hand applicator is recommended to fully adhere the tape's adhesive to the application surface.



Removal techniques

- 1. To minimize damage to the surface and promote clean removal, it is recommended to carefully lift the 3M™ Durable Floor Marking Tape at one corner and then pull it straight up vertically.
 - 2. If adhesive residue is present, it can be softened by using a 3M™ Citrus Based Cleaner or many common solvents such as heptane, toluene, or methyl ethyl ketone.
- *Be sure to follow the manufacturer's precautions and instructions when using solvents. Before using a solvent to remove adhesive residue, it is strongly recommended to test the solution.

Storage and shelf life

Store under normal conditions of +15 to +30°C and 40 to 60% relative humidity in the original packaging, protected from direct sunlight. For best performance, use this product within 18 months of the manufacturing date.

Available container sizes

Attribute label	Value
Standard roll length	32.9 m

Information

Important Information: All statements, technical information, and recommendations contained in this document are based on tests or experience that 3M considers 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, as well as the time and environmental conditions under which the product is expected to be used. Because these factors are solely within the user's knowledge and control, it is essential that the user evaluates the 3M product to determine whether it is suitable for a particular purpose and for the user's method or application. All liability issues relating to this product are governed by the Terms of Sale and, where applicable, by applicable law. The stated values were obtained using standard test methods and are average values that should not be used for specification purposes.

Our recommendations for using our products are based on tests we believe to be reliable. However, we encourage you to conduct your own tests to determine suitability for your applications. 3M cannot accept responsibility or liability for any loss or damage resulting from our recommendations.

ISO certification

ISO declaration

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

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