



Technical Data Sheet

3M™ Vinyl Tape 471



[Product Details](#)



[Regulatory Info/SDS](#)

Product Description

3M™ Vinyl Tape 471 is a conformable colored (9 colors plus transparent) tape made from vinyl backing with rubber adhesive. It is ideal for many lane and safety markings, color coding, abrasion protection, masking, sealing, splicing and other general purpose applications.

Product Features

- Pigmented backings maintain their vivid colors even when exposed to heavy abrasion.
- Can be sold to Commercial Item Description A-A-1689 Type I & II
- Conformability and dead stretch properties are ideal for taping, wrapping or sealing many curved, convex, or irregular surfaces.
- Rubber adhesive provides good adhesion to many surfaces for easier application and excellent holding strength.
- Sharp colors for color coding or marking systems, draw attention and help enhance plant safety.
- Clean removal from many surfaces which helps reduce clean-up and labor costs.
- Abrasion resistant and longer potential application life.
- Good solvent resistance for application protection and longer product life.

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
Color		Yellow, white, red, black, brown, green, orange, purple, blue
Adhesive Type		Rubber
Backing Thickness	ASTM D3652	0.1 mm (4.1 mil)
Total Tape Thickness	ASTM D3652	0.14 mm (5.2 mil)
Low Leachable Halogen and Sulfur	MIL-STD-2041D(SH)	Passes

Typical Performance Characteristics

Attribute Name	Test Method	Temperature	Value
180° Peel Adhesion	ASTM D3330	22 °C (72 °F)	2.5 N/cm (23 oz/in) ¹
Elongation at Break	ASTM D3759		130 %
Tensile Strength	ASTM D3759		24.5 N/cm (224 oz/in)
Long Term Temperature Resistance			77 °C (170 °F) ²
Minimum Long Term Temperature Resistance			4 °C (40 °F) ²

¹ 12 in/min (300 mm/min)

² Long Term (day, weeks)

Handling/Application Information

Application Examples

- Excellent for many lane and safety marking applications. When used with an applicator like the M-77 dispenser, 3M™ Vinyl Tape 471 can be quickly applied to define storage and safety areas. The fact that 3M tape 471 is quickly and cleanly removed in most cases makes it a faster, more versatile and less costly option than painting. Using tape for lane marking instead of painting also eliminates the need to ventilate paint solvents from an open area.
- Because it has low leachable halogens and sulfur, 3M™ Vinyl Tapes 471 can be used in corrosion sensitive applications like the nuclear and stainless steel industries.
- 3M tape 471 stretches to seal canisters and other storage containers that require a tight seal.
- Vivid colors of the tapes make them ideal for color, coding and decorating.

Application Techniques

- Best results are attained when applied to a clean, dry surface at temperatures between 60° to 85°F (16° to 27°C).
- Note:** While 3M tape 471 resists many common solvents, it should not be exposed to ketones, chlorinated hydrocarbons and esters found in lacquer thinner, degreasers, paint strippers, etc., which may cause the backing to swell or curl.

Industry Specifications

Can be sold to Commercial Item Description A-A-1689 Type I & II

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 18 months from date of manufacture.

Available Sizes

Attribute Name	Value
Standard Roll Length	33 m (36 yd)

Information

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ISO Statement

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

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