

# 3M

# Vinyl Tape

## 471

FOD# 1473

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### Technical Data

July 1, 1999

*Supersedes January 1, 1999*

**Product Description** Various colored (10 colors and transparent) vinyl tape with a rubber adhesive ideal for many color coding, abrasion protection, decoration, sealing, patching, splicing, wrapping and general purpose applications. Excellent for many lane marking applications.

**Product Construction** Backing: Pigmented and transparent vinyl  
Adhesive: Rubber  
Color: Yellow, white, red, black, brown, green, orange, red-orange, purple, transparent, blue  
Standard Roll Length: 36 yds. (33m)  
Standard Widths Available: ¼, ½, ¾, 1, 2, 3 in. (6, 13, 19, 25, 50, 75 mm)

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

#### ASTM TEST METHOD

Properties for all colors except red-orange, purple and transparent:

Adhesion to Steel:	22 oz./in. width (25 N/100mm)	D-3330
Tensile Strength:	15 lbs./in. width (280 N/100mm)	D-3759
Elongation at Break:	140%	D-3759
Backing Thickness:	4.1 mils (0.10mm)	D-3652
Total Tape Thickness:	5.2 mils (0.13mm)	D-3652

Properties for red-orange:

Adhesion to Steel:	19 oz./in. width (21 N/100mm)	D-3330
Tensile Strength:	20 lbs./in. width (350 N/100mm)	D-3759
Elongation at Break:	70%	D-3759
Tape Thickness:	4.0 mils (0.10mm)	D-3652
Total Tape Thickness:	5.4 mils (0.14mm)	D-3652

**Typical Physical Properties (cont.)**

**ASTM TEST METHOD**

Properties for transparent:

Adhesion to Steel:	26 oz./in. width (28 N/100mm)	D-3330
Tensile Strength:	16 lbs./in. width (280 N/100mm)	D-3759
Elongation at Break:	180%	D-3759
Tape Thickness:	4.1 mils (0.10mm)	D-3652
Total Tape Thickness:	5.4 mils (0.14mm)	D-3652

**General Information**

1. Best results are obtained when applied to clean, dry surfaces, between 60-85° F (15-27° C).
2. Pigmented backings maintain their vivid colors even when exposed to heavy abrasion.
3. Conformability and dead stretch properties are ideal for taping, wrapping or sealing many curved or irregular surfaces.

**NOTE:** While Tape 471 resists many common solvents, Tape 471 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.

**Shelf Life**

To obtain best performance, use this product within one year from date of manufacture and store under normal conditions of 70° F (21° C) and 50% R.H. in the original carton.

**Features**

<u>FEATURES</u>	<u>ADVANTAGES</u>	<u>BENEFITS</u>
4 mil pigmented vinyl backing	Longer life than many competitive products which are surface printed	Long periods between rework/helps improve productivity
	Readily conformable to many irregular surfaces	Effective seal
	Abrasion resistant	Longer potential application life
	Dead stretch properties	Provides straighter line for masking, marking and sealing applications than many stretchier backings
Sharp contrasting colors	Can be used for color coding or marking systems	Enhances plant safety and quality control programs
Translucent synthetic rubber adhesive	Bonds to many surfaces and adhesion strength increase with time	Excellent for marking and sealing when chemical resistance is required
		Excellent for aisle marking

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**Technical Information  
and Data**

The technical information and data, recommendations, and other statements provided are based on tests or experience which 3M believes to be reliable, but the accuracy or completeness of such information is not guaranteed.

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**Product Use**

Please remember that many factors can affect the use and performance of a 3M product in a particular application. The materials to be bonded with the product, the surface preparation of those materials, the product selected for use, the conditions in which the product is used, and the time and environmental conditions in which the product is expected to perform are among the many factors that can affect the use and performance of a 3M product. Given the variety of factors that can affect the use and performance of a 3M product, some of which 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 of application.

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**Warranty and  
Limited Remedy**

The 3M product will be free from defects in material and manufacture for a period of one (1) year from the date of manufacture. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of application. If the 3M product is defective within the warranty period stated above, your exclusive remedy and 3M's sole obligation shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product.

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**Limitation of Liability**

Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including, but not limited to, contract, warranty, negligence, or strict liability.



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