



Vinyl Tape

471 • 4712 (Linered)

Technical Data

July, 2006

Product Description

3M™ Vinyl Tape 471 and 4712 are a conformable colored (9 colors plus transparent) vinyl backing with a rubber adhesive ideal for many lane and safety markings, color coding, abrasion protection, masking, sealing, splicing and other general purpose applications.

3M vinyl tape 4712 is a linered version of 3M vinyl tape 471 that may be used for die cutting applications.

Product Construction

Product	Backing	Adhesive	Color	Standard Roll Length
3M™ Vinyl Tape 471	4 mil pigmented and transparent vinyl	Rubber	Yellow, white, red, black, brown, green, orange, purple, blue and transparent	36 yds. (33 m)
3M™ Vinyl Tape 4712	4 mil pigmented and transparent vinyl Liner – 1.1 mil 42# premium paper	Rubber	Yellow, white, red, black, brown, green, orange, purple, blue and transparent	36 yds. (33 m)

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 transparent:

Adhesion to Steel:	23 oz./in. width (25 N/100 mm)	D-3330
Tensile Strength at Break:	16 lbs./in. width (280 N/100 mm)	D-3759
Elongation at Break:	130%	D-3759
Backing Thickness:	4.1 mils (0.10 mm)	D-3652
Total Tape Thickness:	5.2 mils (0.13 mm)	D-3652
Temperature Use Range:	40° to 170°F (4° to 77°C)	

Properties for transparent:

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

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Features

- Pigmented backings maintain their vivid colors even when exposed to heavy abrasion.
- Conformability and dead stretch properties are ideal for taping, wrapping or sealing many curved or irregular surfaces.
- Longer life than many competitive products which are surface printed.
- Longer periods between rework helps improve productivity.
- Readily conformable to many irregular surfaces which stays in place.
- Abrasion resistant and longer potential application life.
- Dead stretch properties provide straighter lines when masking, marking and sealing.
- Easier to work with, less rework and improved appearance.
- Sharper colors for color coding or marking systems for a better appearance, draws attention and helps enhance plant safety.
- Rubber adhesive which provides good adhesion to many surfaces for easier application and excellent holding strength.
- Clean removal which helps reduce clean-up and labor costs.
- Good solvent resistance for excellent application protection and longer product life.

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™ Vinyl Tape 471 and 4712 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.

Application Ideas

- Ideal for masking, wrapping or sealing many curved or irregular surfaces.
- Excellent for many lane and safety marking applications.
- Ideal for color coding, abrasion protection, decoration and splicing applications.

Storage

Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% R.H. in the original carton.

Shelf Life

To obtain best performance, use this product within 18 months from date of manufacture.

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Product Use

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 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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ISO 9001:2000

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards.



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