

February, 2011

## 3M™ Vinyl Tape 471

### 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

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

Typical Performance Characteristics

Property	Values		Method	Dwell/Cure Time	Dwell Time Units	Substrate	Backing	Notes
180° Peel Adhesion	2.5 N/cm	23 oz/in	ASTM D3330	72	hr	Stainless Steel	2 mil Aluminum Foil	12 in/min (305 mm/min)
Tensile Strength	24.5 N/cm	224 oz/in	ASTM D3759					
Elongation at Break	130 %		ASTM D3759					
Temperature Use Range	-40 to 77 °C	40 to 170 °F						

Available Sizes

Property	Values	
Standard Roll Length	33 m	36 yd

# 3M™ Vinyl Tape 471

## Handling/Application Information

### Application Ideas

- 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 tape 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.

### Storage and Shelf Life

Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% R.H. in the original carton.  
To obtain best performance, use this product within 18 months from date of manufacture.

### Industry Specifications

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

### Trademarks

3M is a trademark of 3M Company.

### References

Property	Values
3m.com Product Page	<a href="https://www.3m.com/3M/en_US/company-us/all-3m-products/~ /3M-Vinyl-Tape-471?N=5002385+3293242769&amp;rt=rud">https://www.3m.com/3M/en_US/company-us/all-3m-products/~ /3M-Vinyl-Tape-471?N=5002385+3293242769&amp;rt=rud</a>
Safety Data Sheet (SDS)	<a href="https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&amp;msdsLocale=en_US&amp;co=ptn&amp;q=471">https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&amp;msdsLocale=en_US&amp;co=ptn&amp;q=471</a>

### Family Group

	471	4712 (Linered)	471 (Transparent)	4712 (Linered, Transparent)
Color	Yellow, white, red, black, brown, green, orange, purple, blue	Yellow, white, red, black, brown, green, orange, purple, blue	Transparent	Transparent
Total Tape Thickness (mm)	0.14	0.14	0.14	0.14
Backing Thickness (mm)	0.1	0.1	0.1	0.1
Adhesive	Rubber	Rubber	Rubber	Rubber

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## Family Group (continued)

	471	4712 (Linered)	471 (Transparent)	4712 (Linered, Transparent)
Tensile Strength (N/cm)	24.5	24.5	24.5	24.5

## ISO Statement

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

## Information

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