

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.



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

Typical Performance Characteristics

Property	Values		Method	Notes	Test Condition
180° Peel Adhesion	2.5 N/cm	23 oz/in	ASTM D3330	12 in/min (300 mm/min)	
Tensile Strength	224 oz/in	24.5 N/cm	ASTM D3759		
Elongation at Break	130 %		ASTM D3759		
Long Term Temperature Resistance	170 °F	77 °C			Long Term (day, weeks)
Minimum Long Term Temperature Resistance	40 °F	4 °C			Long Term (day, weeks)

Available Sizes

Property	Values	
Standard Roll Length	33 m	36 yd

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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 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	https://www.3m.com/3M/en_US/company-us/all-3m-products/-/3M-Vinyl-Tape-471/?N=5002385+3293242769&rt=rud
Safety Data Sheet SDS	https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=471

Family Group

	471	4712 (Linered)	471 (Transparent)	4712 (Linered, Transparent)
Long Term Temperature Resistance (°F) Test Condition: Long Term (day, weeks)	170	170	170	170
Long Term Temperature Resistance (°C) Test Condition: Long Term (day, weeks)	76.66667	76.66667	76.66667	76.66667

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3M™ Vinyl Tape 471

Family Group (continued)

	471	4712 (Linered)	471 (Transparent)	4712 (Linered, Transparent)
Minimum Long Term Temperature Resistance (°C) Test Condition: Long Term (day, weeks)	4.444444	4.444444	4.444444	4.444444
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 Type	Rubber	Rubber	Rubber	Rubber
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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