

Technical Data Sheet

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	Additional Information
Adhesive Type	Rubber	
Color	Yellow, white, red, black, brown, green, orange, purple, blue	
Backing Thickness (mm)	0.1 mm	View 

Test Method: ASTM D3652

Total Tape Thickness (mil)	5.2 mil	View 
Test Method: ASTM D3652		
Total Tape Thickness (mm)	0.14 mm	View 

Test Method: ASTM D3652

Backing Thickness	4.1 mil	View 
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Test Method: ASTM D3652

Low Leachable Halogen and Sulfur	Passes	View 
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Test Method: MIL-STD-2041D(SH)

Typical Performance Characteristics

Property	Values	Additional Information
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Tensile Strength	24.5 N/cm	View 
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Test Method: ASTM D3759

180° Peel Adhesion	2.5 N/cm	View 
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Test Method: ASTM D3330

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion	23 oz/in	View 
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Test Method: ASTM D3330

Notes: 12 in/min (300 mm/min)

Tensile Strength	224 oz/in	View 
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Test Method: ASTM D3759

Elongation at Break (%)	130 %	View 
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Test Method: ASTM D3759

Long Term Temp C	77 °C	View 
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Test Condition: Long Term (day, weeks)

Minimum Long Term Temperature Resistance	4 °C	View 
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Test Condition: Long Term (day, weeks)

Long Term Temp F	170 °F	View 
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Test Condition: Long Term (day, weeks)

Minimum Long Term Temperature Resistance	40 °F	View 
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Test Condition: Long Term (day, weeks)

Available Sizes

Property	Values	Additional Information
Standard Roll Length	33 m	
Standard Roll Length	36 yd	

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

Bottom Matter

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St. Paul, MN 55144-1000
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Trademarks

3M is a trademark of 3M Company.

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.

References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/p/d/b40071909/
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

Link Tags:

• 471 • 4712 (Lined) • 471 (Transparent) • 4712 (Lined, Transparent)

Products	Adhesive Type	Color	Liner Thickness	Backing Thickness (mm)	Long Term Temp C	Minimum Long Term Temperature		Total Tape Thickness (mm)	Tensile Strength
						Long Term Resistance	Long Term Temp F		
4712 (Lined)	Rubber	Yellow, white, red, black, brown, green, orange, purple, blue	0.08 mm	0.1 mm	77 °C	4 °C	170 °F	N/A	N/A
471	N/A	Yellow, white, red, black, brown, green, orange, purple, blue	N/A	0.1 mm	N/A	N/A	170 °F	0.14 mm	N/A
471 (Transparent)	N/A	N/A	N/A	N/A	N/A	N/A	170 °F	0.14 mm	24.5 N/cm
4712 (Lined, Transparent)	N/A	Transparent	0.08 mm	0.1 mm	77 °C	4 °C	170 °F	0.14 mm	24.5 N/cm

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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