



Technical Data Sheet

3M™ Vinyl Tape 477



[Product Details](#)



[Regulatory Info/SDS](#)

Product Description

3M™ Vinyl Tape 477 is comprised of a conformable, transparent vinyl backing with a versatile rubber adhesive. It is an excellent tape to use where abrasion resistance, transparency, conformability and moderate adhesion are needed.

Product Features

- Best results are attained when applied to a clean, dry surface at temperatures between 60° to 80°F (16° to 27°C).
- Conformability and dead stretch properties make it ideal for taping or sealing many curved and irregular surfaces.
- A thick backing makes it ideal for many applications which require abrasion protection.
- While tape resists most common solvents, care should be taken to avoid ketones, chlorinated hydrocarbons and esters that are found in lacquer thinners, degreasers, paint strippers, etc. which may cause the backing to swell or curl.
- Avoid using on highly plasticized materials which may result in adhesive softening and potential adhesion failure.
- Transparent backing allows protection with visibility of the protected area.
- Transparency allows the tape to be used on colored surfaces without being obvious eliminating the need for color matching tapes.

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

Attribute Name	Test Method	Value
Color		Transparent
Adhesive Type		Rubber
Backing		Transparent Vinyl
Backing Thickness	ASTM D3652	0.15 mm (6 mil)
Total Tape Thickness	ASTM D3652	0.18 mm (7.2 mil)

Typical Performance Characteristics

Attribute Name	Test Method	Temperature	Value
180° Peel Adhesion	ASTM D3330	22 °C (72 °F)	2.6 N/cm (24 oz/in) ¹
Elongation at Break	ASTM D3759		230 %
Tensile Strength	ASTM D3759		42 N/cm (384 oz/in)
Long Term Temperature Resistance			121 °C (250 °F) ²

¹ 12 in/min (300 mm/min)

² Long Term (day, weeks)

Handling/Application Information

Application Examples

- Protection of parts from abrasion.
- Masking for electroplating and anodizing.
- Splicing of wrestling mats and similar type products.
- Protecting the printing of indoor signage from dirt and abrasion, prolonging its life and readability.
- Protecting delicate surfaces from wear.

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.

Available Sizes

Attribute Name	Value
Standard Roll Length	33 m (36 yd)

Information

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ISO Statement

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

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