

# 3M

# Vinyl Tape

## 477

Technical Data

February, 2011

**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 Construction	Backing	Adhesive	Color	Standard Roll Length
	Transparent vinyl	Rubber	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
Adhesion to Steel:	24 oz./in. width (26 N/100 mm)	D-3330
Tensile Strength at Break:	24 lbs./in. width (420 N/100 mm)	D-3759
Elongation at Break:	230%	D-3759
Backing Thickness:	6.0 mils (0.15 mm)	D-3652
Total Tape Thickness:	7.2 mils (0.18 mm)	D-3652
Temperature Use Range:	Up to 250°F (121°C)	

### 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.

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## Application Ideas

- 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.

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## Storage

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

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## Shelf Life

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

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## Technical Information

The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

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## Product Use

Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

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**ISO 9001:2008**

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2008 standards.



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