



# Heavy Duty Protective Tape

## 346

Technical Data

July, 2003

**Product Description** 3M™ Protective Tape 346 is a heavy duty natural colored flat stock paper tape for indoor and outdoor protection of many metals, plastics and materials in transit and features a heavy duty weather resistant backing.

Construction	Backing	Adhesive	Color	Roll Length
	Flat paper stock	Rubber	Tan	60 yds. (55 m)

Typical Physical Properties and Performance Characteristics	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:	22 oz./in. width (24 N/100 mm)	D-3330
	Tensile Strength:	28 lbs./in. width (490 N/100 mm)	D-3759
	Elongation at Break:	4%	D-3759
	Backing Thickness:	15 mils (0.38 mm)	D-3652
	Total Tape Thickness:	16.7 mils (0.42 mm)	D-3652

**Features**

- Heavy flat stock backing that is abrasion and moisture resistant and filters U.V. rays.
- Rubber adhesive that is stain and transfer resistant and long aging to help reduce clean up and can be used for long periods of time (up to 6 months) and still provide reasonably clean removal under most conditions.

**Application Information**

- Not designed for paint masking or sand blast operations.
- Prolonged exposure to water and abrasion can cause backing to wear away.
- Be careful with materials which contain copper and brass. Staining may result along with difficult removal after aging.
- Recommended outdoor exposure limited to six months. Exposures in excess of six months should be thoroughly tested by the user.
- Stacking pressures and repeated foot traffic, and high storage temperatures can cause adhesion build-up. Under such conditions, the tape should be checked periodically to determine ease of tape removal from substrate.
- Thoroughly check on all painted surfaces to guard against stain.
- Avoid solvent spills. Acetone, mineral spirits, lacquer thinners, etc. can cause staining, adhesive oozing and backing separation.
- Test for clean removal on all anodized aluminum surfaces. Improper sealing of surface causes adhesive transfer.
- The surface to which tape is to be applied should be clean and free of all traces of oil and moisture. For best results, the tape should not be applied to surfaces below 60°F (15°C) or above 100°F (38°C).

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## Application Ideas

- Protection of boat deck and interior cabin surfaces during building, finishing, refurbishing.
- Steel tank protection during fabrication/welding.
- Protection of aircraft parts and surfaces (e.g., wings, windows, etc.) during maintenance, storage, shipping.
- Indoor and outdoor protection of metals and plastics.
- Protection of materials in transit from abrasion damage caused by movement within shipping containers (e.g., outdoor motors).

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## Storage

Store in a clean, dry environment between 60-80°F (15-27°C) and 40-50% relative humidity.

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## Shelf Life

Not recommended to exceed one year from date of manufacture

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## For Additional Information

To request additional product information or to arrange for sales assistance, call toll free 1-800-362-3550 or visit [www.3M.com/industrialtape](http://www.3M.com/industrialtape). Address correspondence to: 3M Industrial Adhesives and Tapes Division, Building 21-1W-10, 900 Bush Avenue, St. Paul, MN 55144-1000. Our fax number is 651-778-4244. In Canada, phone: 1-800-364-3577. In Puerto Rico, phone: 1-787-750-3000. In Mexico, phone: 52-70-04-00.

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## Product Use

All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

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**ISO 9002**

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9002 standards.



**Industrial Business  
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Printed in U.S.A.  
©3M 2003 70-0703-2504-1 (7/03)

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