



# Technical Data Sheet

## 3M™ Heavy Duty Protective Tape 346



[Product Details](#)



[Regulatory Info/SDS](#)

### 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.

### Product 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.

### 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		Tan
Adhesive Type		Rubber
Backing		Flat Paper Stock
Backing Thickness	ASTM D3652	0.38 mm (15 mil)
Total Tape Thickness	ASTM D3652	0.42 mm (16.7 mil)

### Typical Performance Characteristics

Attribute Name	Test Method	Temperature	Value
180° Peel Adhesion	ASTM D3330	23 °C (73 °F)	2.4 N/cm (22 oz/in) <sup>1</sup>
Elongation at Break	ASTM D3759		4 %
Tensile Strength	ASTM D3759		49 N/cm (28 lb/in)
Long Term Temperature Resistance			38 °C (100 °F) <sup>2</sup>
Minimum Long Term Temperature Resistance			16 °C (60 °F) <sup>2</sup>

<sup>1</sup> 304 mm/min (12 in/min)

<sup>2</sup> Long Term (day, weeks)

## Handling/Application Information

### Application Examples

- 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).

### Application Techniques

- 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)

## Storage and Shelf Life

Store under normal conditions of 16° to 27°C (60° to 80°F) and 40 to 60% relative humidity in the original packaging, out of direct sunlight. For best performance, use this product within 12 months from date of manufacture.

## Available Sizes

Attribute Name	Value
Standard Roll Length	55 m (60 yd)

## Information

**Technical Information:** The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information.

**Product Selection and 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. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

**Warranty, Limited Remedy, and Disclaimer:** Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

**Limitation of Liability:** Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.

**Disclaimer:** 3M industrial and occupational products are intended, labeled, and packaged for sale to trained industrial and occupational customers for workplace use. Unless specifically stated otherwise on the applicable product packaging or literature, these products are not intended, labeled, or packaged for sale to or use by consumers (e.g., for home, personal, primary or secondary school, recreational/sporting, or other uses not described in the applicable product packaging or literature), and must be selected and used in compliance with applicable health and safety regulations and standards (e.g., U.S. OSHA, ANSI), as well as all product literature, user instructions, warnings, and limitations, and the user must take any action required under any recall, field action or other product use notice. Misuse of 3M industrial and occupational products may result in injury, sickness, or death. For help with product selection and use, consult your on-site safety professional, industrial hygienist, or other subject matter expert. For additional product information, visit [www.3M.com](http://www.3M.com).

## ISO Statement

This product was manufactured under a 3M quality system registered to ISO 9001 standards.

**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).

3M™ Industrial Adhesives and Tapes Division  
3M Center, St. Paul, MN 55144-1000  
[3M.com/iatd](http://3M.com/iatd)

©3M 2024 (9/24)



[konport.pl](http://konport.pl)  
[tasmy@konport.pl](mailto:tasmy@konport.pl)

