



Preservation Sealing Tape

481

FOD# 1478

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Technical Data

April 1, 1999

Supercedes January 1, 1999

Product Description A black plastic film tape. Conforms to many irregular surfaces and has excellent stain resistance. Excellent performance as an industrial and military preservation tape. Effective for many outdoor applications in hot and cold weather over two years with quick, clean removal. Applicable Military Specification: MIL-T-22085 Amendment 3 Type II.

Product Construction Backing: Black polyethylene
Adhesive: Special rubber-resin formulation
Color: Black
Standard Roll Length: 36 yds. (33m)
Standard Widths Available: 1, 1½, 2, 3 in. (25, 38, 50, 75 mm)

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:	32 oz./in. width (35 N/100mm)	D-3330
Tensile Strength:	15 lbs./in. width (260 N/100mm)	D-3759
Elongation at Break:	510%	D-3759
Backing Thickness:	7.7 mils (0.20mm)	D-3652
Total Tape Thickness:	9.8 mils (0.25mm)	D-3652
Water Vapor Transmission Rate:	0.5g H ₂ O/100 sq. in./24 hrs. (4g H ₂ O/.065 sq. m/24 hrs.)	D-3833

General Information

- Best results are obtained when applied to a clean, dry surface between 60-80°F (15-27°C).
- Tape 481 is manufactured in an ISO 9002 registered plant to meet worldwide quality standards.

Shelf Life To obtain best performance, use this product within one year from date of manufacture and store under normal conditions of 70°F (21°C) and 50% R.H. in the original carton.

Application Ideas

1. Seals and protects various types of equipment to be stored by military and industry.
2. Splicing and patching materials used by the construction industry.
3. Can be certified to meet certain low sulfur, low halogen, and low heavy metal requirements for aerospace and nuclear facility preservation.

Features**FEATURES****ADVANTAGES****BENEFITS**

Polyethylene film backing

Good conformability to many irregular surfaces

Provides method to help protect equipment and vehicles during transportation and long-term storage

Rubber resin adhesive

Resistant to hot and cold weather

Effective for most short, medium and long term preservation with quick, clean removal

Excellent stain resistance to a variety of surfaces

Technical Information and Data

The technical information and data, recommendations, and other statements provided are based on tests or experience which 3M believes to be reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use

Please remember that many factors can affect the use and performance of a 3M product in a particular application. The materials to be bonded with the product, the surface preparation of those materials, the product selected for use, the conditions in which the product is used, and the time and environmental conditions in which the product is expected to perform are among the many factors that can affect the use and performance of a 3M product. Given the variety of factors that can affect the use and performance of a 3M product, some of which 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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Limitation of Liability

Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including contract, warranty, negligence, or strict liability.

The logo consists of the text "ISO 9002" in a bold, sans-serif font, enclosed within a dark, rounded rectangular border.

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

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