

# 3M

# Polyethylene Tape

## 483

### Technical Data

April, 2011

#### Product Description

3M™ Polyethylene Tape 483 has a polyethylene backing with a rubber adhesive for many general purpose applications including sealing, color coding, protecting, moisture proofing. Black tape has excellent U.V. resistance and can be used outdoors for up to 12 months.

#### Product Construction

| Backing      | Adhesive | Color                                        | Standard Roll Length |
|--------------|----------|----------------------------------------------|----------------------|
| Polyethylene | Rubber   | Transparent, red, blue, white, black, yellow | 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:                                                  | 12 oz./in. width (13 N/100 mm)   | D-3330            |
| Tensile Strength:                                                   | 10 lbs./in. width (175 N/100 mm) | D-3759            |
| Elongation at Break:                                                | 300%                             | D-3759            |
| Backing Thickness:                                                  | 3.9 mils (0.10 mm)               | D-3652            |
| Total Tape Thickness:                                               | 5.0 mils (0.13 mm)               | D-3652            |
| Temperature Use Range:                                              | Up to 200°F (93°C)               |                   |
| Low Leachable Halogens and Sulfur (black, yellow and white tested): | Pass                             | MIL STD 2041D(SH) |
| Outdoor Weathering (black only):                                    | Up to 12 months                  | ASTM G155 Cycle 1 |

#### Features

- Tape stretches easily and is highly conformable for a tight seal around irregular surfaces.
  - Polyethylene backing provides good solvent and alkali resistance properties.
  - Remains flexible to -20°F (-29°C).
- Note:** Should not be exposed to temperatures which exceed 170° to 200°F (77° to 93°C). Exposure to such temperatures may result in softening of backing.
- Vivid colors and smooth backing provide excellent glossy appearance.
  - Low sulfur and halogen content.
  - Low water vapor transmission rate.
  - Best results are attained when applied to a clean, dry surface at temperatures between 60° to 80°F (16° to 27°C).

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## Application Ideas

- General sealing of containers and irregular shaped objects.
- Electroplating and P.C. board masking.
- Silicone chip holding.
- Decorative, safety marking and color coding.
- Nuclear power plant construction and maintenance - (because of low chloride and halogen content).
- Corrosion sensitive applications - (because of low chloride and halogen content).
- Outdoor applications of sealing, protecting, and preserving (black colored tape only).

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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

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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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