

# 3M

# Polyethylene Tape

## 480

### Technical Data

December, 2009

#### Product Description

3M™ Polyethylene Tape 480 has a transparent polyethylene backing with a long aging transparent acrylic adhesive. It can be used for splicing and repairing polyethylene sheeting. It is also recommended for sealing and protecting applications.

#### Product Construction

| Backing                  | Adhesive | Color       | Standard Roll Length | Standard Widths                                                                |
|--------------------------|----------|-------------|----------------------|--------------------------------------------------------------------------------|
| Transparent polyethylene | Acrylic  | Transparent | 36 yds. (33 m)       | 1" (25.4mm), 2" (50.8mm), 3" (76.2mm), 4" (101.6mm)<br>Custom sizes available. |

#### 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:     | 22 oz./in. width (24 N/100 mm)   | D-3330 |
| Tensile Strength:      | 12 lbs./in. width (210 N/100 mm) | D-3759 |
| Elongation at Break:   | 520%                             | D-3759 |
| Backing Thickness:     | 4.0 mils (0.10 mm)               | D-3652 |
| Total Tape Thickness:  | 5.1 mils (0.13 mm)               | D-3652 |
| Temperature Use Range: | 20° to 170°F (-7° to 77°C)       |        |

#### Features

- Polyethylene backing provides good chemical and solvent resistance.
- Extremely conformable for sealing, wrapping, patching and for use on compound curves.
- Water white color, non-yellowing adhesive make repairs less visible.
- Good abrasion resistance.
- Remains flexible to -20°F (-29°C). Prolonged exposure above 170°F (77°C) and hot caustics may cause softening of backing and weaken bond of adhesive to backing.
- Best results are attained when applied to a clean, dry surface at temperatures between 60° to 80°F (16° to 27°C).

#### Application Ideas

- Splicing and patching of polyethylene sheeting.
- Excellent seal on smooth, compound, and irregular surfaces.
- Good candidate for limited outdoor exposure applications (< 3 months) such as patching, repairing or protecting.

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| <b>Storage</b> | 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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|-------------------|-----------------------------------------------------------------------------------------|
| <b>Shelf Life</b> | To obtain best performance, use this product within 18 months from date of manufacture. |
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**ISO 9001:2000**

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards.



### Industrial Adhesives and Tapes Division

3M Center, Building 225-3S-06  
St. Paul, MN 55144-1000  
800-362-3550 • 877-369-2923 (Fax)  
[www.3M.com/industrial](http://www.3M.com/industrial)



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Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)

[www.lifeelectronics.ru](http://www.lifeelectronics.ru)