

# 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.

# 3M™ Polyethylene Tape

480

---

**Storage** Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% R.H. in the original carton.

---

**Shelf Life** To obtain best performance, use this product within 18 months from date of manufacture.

---

**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.

---

**Product 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. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

---

**Warranty, Limited Remedy, and Disclaimer** Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 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 OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. If the 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 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 warranty, contract, negligence or strict liability.

**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



*Recycled Paper*  
40% pre-consumer  
10% post-consumer

3M is a trademark of 3M Company.  
Printed in U.S.A.  
©3M 2009 70-0709-5020-2 (12/09)