



# Polyethylene Protective Tapes

## 3110 • 3112 (Clear)

Technical Data

April, 2007

### Product Description

3M™ Polyethylene Protective Tapes 3110 and 3112 have a low-tack adhesive system to help provide temporary protection in *general industrial applications* for many polished metals, plastics, glass materials and for many material surfaces that are susceptible to damage caused by abrasion and marring. Since the film may contain small scratches, gels and wrinkles and a slight amount of haziness or visible adhesive coating pattern may be present, it is not recommended for some plastic lens, or similar applications which do not allow such visual imperfections.

### Construction

| Backing                  | Adhesive | Colors | Standard Roll Size                                                                             |
|--------------------------|----------|--------|------------------------------------------------------------------------------------------------|
| Low-density polyethylene | Acrylic  | Clear* | 48 in. (1200 mm), 60 in. (1500 mm), 72 in. (1800 mm) x 1000 ft. (304.8 m) to 5000 ft. (1524 m) |

\*Contact your local 3M sales representative for additional information about colors.

### 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.**

|                                       | Nominal Results    |                   | ASTM Test Method |
|---------------------------------------|--------------------|-------------------|------------------|
| Adhesion to Steel:<br>(oz./in. width) | 3M tape 3110<br>2  | 3M tape 3112<br>3 | D-3330           |
| Tack Level:                           | Very Low           | Low               |                  |
| Tensile Strength:<br>(Break or Yield) | 2500 PSI / 1.7 MPA |                   | D-882            |
| Elongation:<br>(Break or Yield)       | 450%               |                   | D-882            |
| Total Tape Thickness:                 | 3.0 mils (0.08 mm) |                   | D-3652           |

### Features

- Low-tack adhesive for easy removal to help reduce labor costs.
- Transparent backing allows visual inspection without tape removal to help reduce rework.
- Abrasion resistant backing resists tearing during forming to help reduce labor costs, rejects and reworks.

### Application Ideas

- Automotive – trim: bi-metal aluminum-polished gloss, stainless steel, chrome and interior plastic.
- Graphic Arts – nameplates: gloss screenprinted.
- Plastics – gloss high-pressure laminates; sheeting: polished polycarbonate, polyester and acrylic.
- Metals – aluminum: anodized bright specular; stainless steel: 430 bright annealed.
- Architectural Panels and Garage Doors – smooth and painted-gloss.

# 3M™ Polyethylene Protective Tapes

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|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application Techniques</b>      | For optimum performance, these tapes should be applied and removed at a temperature not less than 60°F (16°C). These tapes are not designed for prolonged exposure to direct sunlight for extended periods. Prolonged exposure to heat, moisture and direct U.V. light or sunlight may adversely affect the performance of these tapes and may result in adhesion build-up, high unwind and adhesive residue problems.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Shelf Life</b>                  | To obtain best performance, use this product within 12 months from date of manufacture.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>For Additional Information</b>  | To request additional product information or to arrange for sales assistance, call toll free 1-800-241-2031 or 828-465-3053. Address correspondence to: PolyMask, a 3M company, 500 Thornburg Dr., P.O. Box 309, Conover, NC 28613. Our fax number is 1-800-672-3038 or 828-465-2404.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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## Industrial Business Industrial Adhesives and Tapes Division

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40% pre-consumer  
10% post-consumer

ISO 9001:2000

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