



# Co-Extruded Polyethylene Protective Tapes

## 25A10 • 25A12 (Clear)

Technical Data

April, 2004

### Product Description

3M™ Co-Extruded Polyethylene Protective Tapes 25A10 and 25A12 have a low-tack adhesive system to help provide temporary protection of many polished steel and aluminum sheets, coils, gloss finish plastic laminate tops, gloss finish painted metals and glass from surface damage such as scratching and abrading.

### Construction

Backing	Adhesive	Colors	Standard Roll Size
Co-extruded 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 on available colors.

### Typical Physical Properties and Performance Characteristics

**Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.**

Film Type	Dart Drop	Break Strength	Elongation	Abrasion Resistance
2.0 mil LDPE	88 grams	MD-3.8 lbs./in. TD-2.8 lbs./in.	MD-200% TD-525%	1538 cycles
3.0 mil LDPE	140 grams	MD-6.1 lbs./in. TD-4.6 lbs./in.	MD-330% TD-675%	4130 cycles
4.0 mil LDPE	195 grams	MD-8.5 lbs./in. TD-6.4 lbs./in.	MD-450% TD-830%	4750 cycles
5.0 mil LDPE	250 grams	MD-10.9 lbs./in. TD-8.2 lbs./in.	MD-480% TD-850%	6975 cycles
2.5A Series	220-240 grams	MD-13.1 lbs./in. TD-13.1 lbs./in.	MD-600% TD-700%	6500 cycles

Note: The abrasion resistance testing was conducted using ASTM Test Method D-4060 and a Taber Abrader employing a CS-10 Wheel and 1000 gram auxiliary weights.

	Nominal Results		ASTM Test Method
Adhesion to Steel: (oz./in. width)	3M tape 25A10 2	3M tape 25A12 4	D-3330
Tack Level:	Very Low	Low	
Elongation: (Break or Yield)	600%		D-882, D-3759
Total Tape Thickness:	2.5 mils (0.06 mm)		D-3652

# 3M™ Co-Extruded Polyethylene Protective Tapes

25A10 • 25A12 (Clear)

---

## Features

- Greater abrasion resistance vs. many typical thicker gauge films for ease of application to help reduce cost.
- High elongation which may be left on through forming without removing to help reduce labor.
- Thinner gauge backing which allows more linear footage on a roll vs. many typical thicker gauge films to help reduce inventory.
- Enhanced elongation properties of the film allow the tapes to be left on during many forming operations where damage may occur.

---

## Application Ideas

### 3M™ Co-Extruded Polyethylene Protective Tape 25A10

- Automotive – trim: bi-metal aluminum-polished gloss, stainless steel, chrome and interior plastic.
- Graphic Arts – nameplates: gloss and matte screen printed.
- Plastics – matte high-pressure laminates.
- Metals – aluminum: anodized, painted, bronzed; stainless steel: #4 polished.
- General – cultured marble, painted gloss finished architectural panels, smooth acrylic sheets and films.

### 3M™ Co-Extruded Polyethylene Protective Tape 25A12

- Automotive – trim: bi-metal aluminum-polished gloss, stainless steel, chrome and interior plastic.
- Graphic Arts – nameplates: gloss and matte screen printed.
- Plastics – matte high-pressure laminates.
- Metals – aluminum: anodized, skin quality; stainless steel: #4 polished and sheets and coils in fabrication.
- General – cultured marble, acrylic mirrors, glass window panels and painted semi-gloss architectural panels.

---

## Application Techniques

For optimum performance, these tapes should be applied and removed at a temperature not less than 60°F (16°C) and avoid prolonged exposure to UV sunlight which may affect the performance of these tapes.

---

## 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 these products within 12 months from date of manufacture.

# 3M™ Co-Extruded Polyethylene Protective Tapes

25A10 • 25A12 (Clear)

---

## For Additional Information

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: 3M/PolyMask, 500 Thornburg Dr., P.O. Box 309, Conover, NC 28613. Our fax number is 1-800-672-3038 or 828-465-2404.

---

## Product Use

All statements, technical information and recommendations contained in this document are based upon tests or experience that PolyMask Corporation and 3M believe are reliable. However, many factors beyond the control of PolyMask Corporation and 3M can affect the use and performance of a PolyMask Corporation product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the PolyMask Corporation product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

---

## Warranty and Limited Remedy

Unless stated otherwise in other product literature, packaging inserts or product packaging for individual products, PolyMask Corporation warrants that each PolyMask Corporation product meets the applicable specifications at the time PolyMask Corporation ships the product. Individual products may have additional or different warranties as stated on product literature, package inserts or product packages. **POLYMASK CORPORATION AND 3M COMPANY MAKE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE.** User is responsible for determining whether the PolyMask Corporation product is fit for a particular purpose and suitable for user's application. If the PolyMask Corporation product is defective within the warranty period, your exclusive remedy and PolyMask Corporation's sole obligation will be, at PolyMask Corporation's option, to replace the product or refund the purchase price.

---

## Limitation of Liability

Except where prohibited by law, 3M Company and PolyMask Corporation will not be liable for any loss or damage arising from the PolyMask Corporation 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 product was manufactured under a quality system registered to ISO 9001:2000 standards by PolyMask Corporation, a joint venture of 3M and Sealed Air Corporation, and is sold by PolyMask Corporation with 3M acting as the sales representative of PolyMask Corporation.

# 3M

## Industrial Business Industrial Adhesives and Tapes Division

3M Center, Building 21-1W-10, 900 Bush Avenue  
St. Paul, MN 55144-1000  
www.3M.com/protectivetapes



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

"3M" is a trademark of 3M Company used under license by PolyMask Corporation. Printed in U.S.A.  
©3M 2004 70-0709-4926-1 (4/04)