



Co-Extruded Polyethylene Protective Tapes

25A87 • 25A88 • 25A89 (Clear)

Technical Data

April, 2004

Product Description 3M™ Co-Extruded Polyethylene Protective Tapes 25A87, 25A88 and 25A89 have a high-tack adhesive system to help provide temporary protection of many matte finished plastic laminate tops, cultured marble, textured plastics and metals from surface damage, such as scratching, abrading, etc.

Product 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 25A87 13	3M tapes 25A88 & 25A89 15	D-3330
Tack Level:	High	High	
Elongation: (Break or Yield)	600%		D-882, D-3759
Total Tape Thickness:	3.0 mils (0.08 mm)		D-3652

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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.
- Thin gauge backing which allows more linear footage on a roll vs. many typical thicker gauge films to help reduce inventory and can replace many thicker LDPE tapes to help reduce cost.
- The 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 25A87

- Graphic Arts – matte and polished polycarbonate.
- Plastics – fiberglass, molded and non-skid high-density polyethylene.
- General – LCD screens, glass, cultured marble fiberglass spas, brushed aluminum and steel sheets and coils.

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- Automotive – door panels, dashes, plastic textured kick and scuff plates.
- Graphic Arts – matte and polished polycarbonate.
- Plastics – non-skid high-density polyethylene; sheeting, polished polycarbonate, polyester and acrylic.
- General – matte finish laminate tops (plastic) and textured metals.

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.

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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.

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Printed in U.S.A.
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