



# Polyethylene Protective Tape

## 4179 (Clear)

Technical Data

April, 2006

### Product Description

3M™ Polyethylene Protective Tape 4179 has a very high-tack adhesive system to help provide temporary protection of many dissimilar metals, automotive carpeting, carpeted door panels and plastic scuffplates.

### Construction

Backing	Adhesive	Color	Standard Roll Sizes
Low-density polyethylene	Acrylic	Clear	48 in. (1200 mm), 60 in. (1500 mm) and 72 in. (1800 mm) x 1000 ft. (304.8 m) to 3000 ft. (914.4 m)

### 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: (oz./in. width)	20	D-3330
Tack Level:	High	
Tensile Strength: (Break or Yield)	2500 PSI / 1.7 MPA	D-882
Elongation: (Break or Yield)	450%	D-882
Total Tape Thickness:	4.1 mils (0.10 mm)	D-3652

### Features

- High-tack adhesive will adhere to most matte textured materials to help reduce rework.
- High-coating weight will wet out most surfaces with low contact area to help decrease rework.
- 4.1-mil thickness gives increased abrasion resistance to help reduce rework.
- Recommended for temporary protection of carpet and fabric made from synthetic fibers. For use on natural or wool fibers, user should determine if suitable for specific application.
- Not intended for use on wet or damp surfaces including surfaces recently installed with wet adhesive.
- When used for heavy traffic conditions, remove tape after one week; for moderate traffic remove after two weeks and for light traffic remove after three weeks.

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## Application Ideas

- Automotive – carpet interior (treated and untreated), door panels, dashes, plastic textured kick and scuff plates.
- General – dissimilar metals.

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## Application Techniques

For optimum performance, this tape should be applied and removed at a temperature not less than 60°F (16°C) and avoid prolonged exposure to direct UV sunlight and water which may result in adhesive transfer.

Various temperature and traffic conditions will affect the performance of the tape. It is essential for the user to evaluate and determine whether the tape is fit for a particular use and avoid prolonged exposure to direct UV sunlight and moisture.

Concrete subfloors must be pretested for moisture vapor emissions prior to adhesive installations since drying/curing conditions may not be sufficient to prevent entrapped moisture vapor from the floor to pass through to the carpet's surface and interact with the protective tape, possibly, causing adhesive residue and carpet discoloration. Generally available guidelines indicate that an emissions rate of less than 3.0 lbs. over 1000 sq. ft. is acceptable unless specified otherwise by the carpet manufacturer.

Obtain carpet manufacturers instructions on moisture levels in concrete before proceeding with applying pads or wet adhesives. Follow wet adhesive manufacturer's instructions to provide adequate ventilation and drying time prior to installing the carpet. Generally available guidelines indicate that fresh air ventilation must be maintained for 48-72 hours at 65-95°F (18-35°C) @ a maximum of 65% relative humidity.

Do not use protective tape over carpet or pads that have been installed with the requirements that the adhesive still be wet.

It is generally suggested that protective tapes not be applied to the carpet until moisture testing of concrete floor is within the carpet manufacturer's guidelines, the wet adhesive has been allowed to dry and the carpet has been installed for at least two weeks with adequate ventilation per guidelines suggested.

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## Storage

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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## Shelf Life

To obtain best performance, use this product 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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## Product Use

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