



Fire Retardant Polyethylene Carpet Protective Tape

4F79

Technical Data

March, 2008

Product Description 3M™ Fire Retardant Polyethylene Carpet Protective Tape 4F79 has a high-tack adhesive system and to help provide temporary protection of carpet during assembly or maintenance of aircraft.

Construction	Backing	Adhesive	Color	Standard Roll Sizes
	Low-density polyethylene	Acrylic	Opaque (off-white)	48 in. (1200 mm) x 1000 ft. (304.8 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)	15	D-3330
Tack Level:	High	
Tensile Strength: (Break or Yield)	9 lbs./in. width 2500 PSI / 1.7 MPA	D-882
Elongation: (Break or Yield)	600%	D-882
Total Tape Thickness:	4.25 mils (0.11 mm)	D-3652

Features

- Meets Nord Arch Test, NT022 for flammability.
- Can be qualified to meet Boeing flammability requirements using Boeing Aircraft's Test Method BSS-7230, F2 subject to the following exception: when performing test, hold flame in place for two minutes.
- 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

- Aircraft carpet during assembly or maintenance.
- Carpets should be dry and relatively free of fibers, dust, dirt or other contaminants that can potentially affect the adhesive and overall tape performance.
- Avoid prolonged exposure to sunlight/UV as it may affect the performance of the tape.
- For optimum performance, this tape should be applied and removed at a temperature not less than 60°F (16°C).
- Avoid exposure of adhesive to flooded carpeted areas and clean up fluid spillage as quickly as possible to minimize risk of potential adhesive residue.

Application Techniques

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.

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 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: 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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ISO 9001:2000

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Printed in U.S.A.
©3M 2008 70-0709-1014-9 (3/08)