



Designation: D 5486/D5486M – 99a^{ε1}

Standard Specification for Pressure-Sensitive Tape for Packaging, Box Closure, and Sealing^{1,2}

This standard is issued under the fixed designation D 5486/D5486M; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the Department of Defense.

ε¹ NOTE—Editorial corrections were made to Tables 1 and 2 and 8.1 in February 2000.

1. Scope

1.1 This specification covers film, paper, and cloth pressure-sensitive tapes used for box closure and sealing.

1.2 The values stated in either inch-pound or SI units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system must be used independently, without combining values in any way.

1.3 The following safety hazards caveat pertains only to the test methods portion, Section 14, of this specification. *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:

- D 996 Terminology of Packaging and Distribution Environments³
- D 1974 Practice for Methods of Closing, Sealing, and Reinforcing of Fiberboard Shipping Containers³
- D 2860/D 2860M Test Method for Adhesion of Pressure-Sensitive Tape to Fiberboard at 90° Angle and Constant Stress³
- D 3330/D 3330M Test Methods for Peel Adhesion of Pressure-Sensitive Tapes at 180° Angle³
- D 3611 Practice for Accelerated Aging of Pressure-Sensitive Tapes³
- D 3652/D 3652M Test Method for Thickness of Pressure-Sensitive and Gummed Tapes³
- D 3654/D 3654M Test Method for Holding Power of

Pressure-Sensitive Tapes³

- D 3715/D 3715M Practice for Quality Assurance of Pressure-Sensitive Tapes³
- D 3759/D 3759M Test Method for Tensile Strength and Elongation of Pressure-Sensitive Tapes³
- D 3811/D 3811M Test Method for Unwind Force of Pressure-Sensitive Tapes³
- D 3815/D 3815M Practice for Accelerated Aging of Pressure-Sensitive Tapes by Carbon-Arc Exposure Apparatus³
- D 3816/D 3816M Test Method for Water Penetration Rate of Pressure-Sensitive Tapes³
- D 3833/D 3833M Test Method for Water Vapor Transmission Rate of Pressure-Sensitive Tapes³
- D 3951 Practice for Commercial Packaging³
- D 4727 Specification for Corrugated and Solid Fiberboard Sheet (Container Grade) and Cut Shapes³
- D 5570 Test Method for Water Resistance of Tape and Adhesives Used as a Box Closure³

2.2 TAPPI Standard:

- T 414 Internal Tear Resistance of Paper (Elmendorf-Type Method)⁴

2.3 Federal Specifications:

- PPP-T-60 Tape: Packaging, Waterproof⁵
- PPP-T-76 Tape, Packaging, Paper (for Carton Sealing)⁵
- PPP-T-680 Tape, Pressure-Sensitive Adhesion: Packaging and Packing of⁵
- FED-STD-595 Colors⁵

2.4 ISO Standard:

- ISO 9002 Quality Systems Model for Quality Assurance in Production and Installation⁶

NOTE 1—The following is a comparison of types and classes of this specification compared with PPP-T-60 and PPP-T-76:

¹ This specification is under the jurisdiction of ASTM Committee D-10 on Packaging and is the direct responsibility of Subcommittee D10.14 on Closure and Reinforcement.

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² This specification is intended to replace Federal Specifications PPP-T-60 and PPP-T-76.

³ *Annual Book of ASTM Standards*, Vol 15.09.

⁴ Available from Technical Association of the Pulp and Paper Industry, Technology Park, Atlanta, PO Box 105113, Atlanta, GA 30348.

⁵ Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094, Attn: NPODS.

⁶ Available from American National Standards Institute, 11 W. 42nd St., 13th Floor, New York, NY 10036.