Designation: D5486/D5486M – 06 (Reapproved 2012)

Standard Specification for Pressure-Sensitive Tape for Packaging, Box Closure, and Sealing[1,2]

This standard is issued under the fixed designation D5486/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.

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:*[3]

D996 Terminology of Packaging and Distribution Environments

D1974 Practice for Methods of Closing, Sealing, and Reinforcing Fiberboard Boxes

D2860/D2860M Test Method for Adhesion of Pressure-Sensitive Tape to Fiberboard at 90° Angle and Constant Stress

D3330/D3330M Test Method for Peel Adhesion of Pressure-Sensitive Tape

D3611 Practice for Accelerated Aging of Pressure-Sensitive Tapes

D3652/D3652M Test Method for Thickness of Pressure-Sensitive Tapes

D3654/D3654M Test Methods for Shear Adhesion of Pressure-Sensitive Tapes

D3715/D3715M Practice for Quality Assurance of Pressure-Sensitive Tapes

D3759/D3759M Test Method for Breaking Strength and Elongation of Pressure-Sensitive Tape

D3811/D3811M Test Method for Unwind Force of Pressure-Sensitive Tapes

D3815/D3815M Practice for Accelerated Weathering of Pressure-Sensitive Tapes by Open-Flame Carbon-Arc Exposure Apparatus

D3816/D3816M Test Method for Water Penetration Rate of Pressure-Sensitive Tapes

D3833/D3833M Test Method for Water Vapor Transmission of Pressure-Sensitive Tapes

D3951 Practice for Commercial Packaging

D4727/D4727M Specification for Corrugated and Solid Fiberboard Sheet Stock (Container Grade) and Cut Shapes

D5570 Test Method for Water Resistance of Tape and Adhesives Used as Box Closure

2.2 *TAPPI Standard:*

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

2.3 *Federal Specifications:*

PPP-T-60 Tape: Packaging, Waterproof[5]

PPP-T-76 Tape, Packaging, Paper (for Carton Sealing)[5]

PPP-T-680 Tape, Pressure-Sensitive Adhesion: Packaging and Packing of[5]

FED-STD-595 Colors[5]

2.4 *ISO Standard:*

ISO 9000:2000 Quality Management Systems–Fundamentals and Vocabulary[6]

---

[1] This specification is under the jurisdiction of ASTM Committee D10 on Packaging and is the direct responsibility of Subcommittee D10.14 on Tape and Labels.

Current edition approved April 1, 2012. Published May 2012. Originally approved in 1993. Last previous edition approved in 2006 as D5486/D5486M – 06. DOI: 10.1520/D5486_D5486M-06R12.

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

[3] For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

[4] Available from Technical Association of the Pulp and Paper Industry (TAPPI), 15 Technology Parkway South, Norcross, GA 30092, http://www.tappi.org.

[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 (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, http://www.ansi.org.

Copyright © ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959. United States