



Standard Specification for Pressure-Sensitive Tape for Sealing Fiber Containers and Cans^{1,2}

This standard is issued under the fixed designation D 6590/D 6590M; 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.

1. Scope

1.1 This specification covers one type of pressure-sensitive tape for closing and sealing slip cover type containers such as fiber tubes and metal cans.

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 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 its use.*

2. Referenced Documents

2.1 ASTM Standards:

- D 996 Terminology of Packaging and Distribution Environments³
- D 3330/D 3330M Test Methods for Peel Adhesion of Pressure-Sensitive Tape³
- 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 Shear Adhesion 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 3816/D 3816M Test Method for Water Penetration Rate of Pressure-Sensitive Tapes³

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

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² This specification is intended to replace Military Specification MIL-T-43036, Type II.

³ Annual Book of ASTM Standards, Vol 1509.

D 3833/D 3833M Test Method for Vapor Transmission Rate of Pressure-Sensitive Tapes³

D 3951 Practice for Commercial Packaging³

D 5570 Test Method for Water Resistance of tape and Adhesives Used as a Box Closure³

2.2 Military Specification:

MIL-C-2439 Container, Ammunition, Fiber Spirally Wound⁴

2.3 ISO Standard:

ISO 9002 Quality Systems Model for Quality Assurance in Production and Installation⁵

3. Terminology

3.1 Definitions:

3.1.1 General definitions for packaging and distribution environments are found in Terminology D 996.

4. Significance and Use

4.1 The polyester film backed pressure-sensitive tape described in this specification is intended for closure and sealing of containers with slip cover closure, such as fiber spirally wound tubes (MIL-C-2439) and metal cans where strength, water-resistance, water-vapor resistance and resistance to rain and other deteriorating elements are required.

5. Ordering Information

5.1 The inquiry or order shall include the following:

- 5.1.1 ASTM Designation and date of issue;
- 5.1.2 Roll width and length;
- 5.1.3 When backing certification is required;
- 5.1.4 When testing and inspection certification is required; and
- 5.1.5 Level of packaging and packing, if other than commercial.

6. Materials and Manufacture

6.1 The materials used in the construction of the tape shall be such as to assure performance of the tape over the temperature range from –55 to 71°C [–65 to 160°F] and shall conform to the requirements of this specification.

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

⁵ Available from American Standards Institute, 11 W. 42nd St., 13 floor, New York, NY 10036.