



Standard Specification for Reinforced and Plain Gummed Tape for Sealing and Securing¹

This standard is issued under the fixed designation D 5749; 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 (€) indicates an editorial change since the last revision or reapproval.

€¹ NOTE—15.1 was corrected editorially in March 1998.

1. Scope

1.1 This specification covers plain and reinforced paper gummed adhesive tapes suitable for securing and banding paper products and closing fiberboard boxes.

1.2 This specification is intended to replace Fed. Specs. CID A-A-1492, CID A-A-1671, and PPP-T-45 in part.

1.3 The values stated in inch-pound units are to be regarded as standard.

1.4 The following safety hazards caveat pertains only to the test methods portion, Section 11, 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 685 Practice for Conditioning Paper and Paper Products for Testing²

D 828 Test Method for Tensile Breaking Strength of Paper and Paperboard²

D 996 Terminology of Packaging and Distribution Environments²

D 1974 Practice for Methods of Closing, Sealing and Reinforcing Fiberboard Shipping Containers²

D 3951 Practice for Commercial Packaging²

2.2 TAPPI Standards:

T 401 Fiber Analysis of Paper and Paperboard³

T 410 Weight per Unit Area (Basis Weight or Substance)³

T 414 Internal Tearing Resistance of Paper (Elmendorf-Type Method)³

UM 575 Water Resistance of Adhesive Bond in Laminated Paper and Paperboard³

2.3 Military Standards:

MIL-STD-105 Sampling Procedures and Tables for Inspection by Attributes⁴

MIL-STD-414 Sampling Procedures and Tables for Inspection by Variables for Percent Defective⁴

2.4 Federal Specifications:

PPP-T-45 Tape, Gummed, Paper, Reinforced and Plain, for Sealing and Securing⁵

PPP-T-681 Tape, Gummed, Packaging and Packing of⁵

CID A-A-1492 Commercial Item Description Tape, Gummed, Paper, Plain⁵

CID A-A-1671 Commercial Item Description Tape, Gummed, (Paper, Reinforced, Laminated)⁵

2.5 ISO Standard:

ISO 9002 Quality Systems Model for Quality Assurance in Production and Installations⁶

3. Terminology

3.1 *Definitions*—General definitions for packaging and distribution environments are found in Terminology D 996.

4. Classification

4.1 Type I Reinforced, Laminated:

4.1.1 Class 1—Strippable.

4.1.2 Class 2—Nonstrippable.

4.2 Type II Plain, Single Ply, Strippable:

4.2.1 Grade A—Light duty, for lightweight packages.

4.2.2 Grade B—Medium duty, for medium-sized packages.

4.2.3 Grade C—Heavy duty, for heavy-duty packages.

5. Significance and Use

5.1 Type I is a reinforced gummed tape which may be strippable (Class 1) or nonstrippable (Class 2). It is intended for use in Methods 2C2, 2C3, and any other methods in Practice D 1974.

5.2 Type II is a plain paper-backed nonstrippable gummed tape. It is intended for use in Methods 2C4, 2C5, and other

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

Current edition approved July 15, 1995. Published September 1995.

² *Annual Book of ASTM Standards*, Vol 15.09.

³ Available from the Technical Association of the Pulp and Paper Industry, P.O. Box 105113, Atlanta, GA 30348.

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

⁵ Available from Superintendent of Documents, U.S Government Printing Office, Washington, DC 20402.

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