



Designation: D5749 – 24

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

This standard is issued under the fixed designation D5749; 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 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 SI units are to be regarded as standard. The values given in parentheses are for information only.

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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.5 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 *ASTM Standards:*²

D685 Practice for Conditioning Paper and Paper Products for Testing

D828 Test Method for Tensile Properties of Paper and Paperboard Using Constant-Rate-of-Elongation Apparatus

D996 Terminology of Packaging and Distribution Environments

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 March 1, 2024. Published March 2024. Originally approved in 1995. Last previous edition approved in 2017 as D5749 – 17. DOI: 10.1520/D5749-24.

² 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.

D1974/D1974M Practice for Methods of Closing, Sealing, and Reinforcing Fiberboard Boxes

D3951 Practice for Commercial Packaging

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 *ANSI/ASQC Standards:*

ANSI/ASQC Z 1.4 Sampling Procedures and Tables for Inspection by Attributes⁴

ANSI/ASQC Z 1.9 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

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 Installations⁴

3. Terminology

3.1 *Definitions*—General definitions for packaging and distribution environments are found in Terminology D996.

4. Classification

4.1 *Type I Reinforced, Laminated (typically non-unitized loads):*

4.1.1 *Grade A*—Light duty.

4.1.2 *Grade B*—Medium duty.

4.1.3 *Grade C*—Heavy duty.

³ Available from Technological Association of the Pulp and Paper Industry (TAPPI), 15 Technology Parkway South, Suite 115, Peachtree Corners, GA 30092, <http://www.tappi.org>.

⁴ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, <http://www.ansi.org>.

⁵ Federal specifications are available online at ASSIST Quick Search, <https://quicksearch.dla.mil/>.

*A Summary of Changes section appears at the end of this standard