

MERICAN NATIONAL) ANSI/ASTM D 259 - 77

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Standard Specification for WOVEN TAPES¹

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.

1. Scope

- 1.1 This specification covers woven tapes made from synthetic or natural fibers, or both.
- 1.2 This specification covers those woven tapes having a maximum thickness up to 0.020 in. (0.50 mm) with permissible listed tolerances.

Note—The values stated in U. S. customary units are to be regarded as the standard.

2. Applicable Documents

- 2.1 ASTM Standards:
- D 76 Specification for Tensile Testing Machines for Textiles2, 3
- D 123 Definitions of Terms Relating to Textiles2, 3
- D 629 Quantitative Analysis of Textiles³
- D 1682 Tests for Breaking Load and Elongation of Textile Fabrics2
- D1777 Measuring Thickness of Textile Materials²
- D 1910 Tests for Construction Characteristics of Woven Fabrics²

3. Definitions

3.1 For definitions of textile terms used in this specification, refer to Definitions D 123.

4. Tolerances

- 4.1 Yards Per Pound The average length per unit weight of the tape in yards per pound shall not be less than the specified value.
- 4.2 Width—The average width of the tape shall not vary from that specified by more than the following:

Permissible variations, in. Nominal width, in. (mm) (mm) Less than 1 (25) $\pm \frac{1}{32}$ (0.80) 1 to 11/2 (25 to 38) ± 3/64 (1.20) over 11/2 (38) ± 1/16 (1.60)

4.3 Thickness:

4.3.1 The average thickness of the tape shall not vary from that specified by more than the following:

Nominal thickness, in. (mm)	Permissible variations in. (mm)
0.011 (0.30) and under Over 0.011 to 0.020 (0.30 to 0.50)	± 0.0015 (0.040) ± 0.002 (0.050)

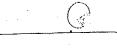
4.3.2 Individual thickness measurements shall not vary from the nominal thickness specified by more than the following:

Nominal thickness, in. (mm)	Permissible variations, in. (mm)
	(min)
0.011 (0.30) and under	\pm 0.002 (0.050)
Over 0.011 to 0.020 (0.30 to 0.50)	$\pm 0.004 (0.100)$

- 4.4 Construction:
- 4.4.1 The total number of ends shall not be less than specified.
- 4.4.2 The picks per inch shall not vary by more than the following:

Pick count	Permissible var ations
48 per 1 in. (25 mm) and under	± 1 pick
Over 48 per 1 in. (25 mm)	± 2 picks

- 4.5 Breaking Strength—The average breaking strength of the tape shall not be less than the specified breaking strength.
- 4.6 Nonfibrous Materials The amount of nonfibrous materials shall not be more than that specified.



¹ This specification is under the jurisdiction of ASTM Committee D-13 on Textiles, and is the direct responsibility of Subcommittee D13.59 on Fabric Test Methods, General.

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² Annual Book of ASTM Standards, Part 32.

³ Annual Book of ASTM Standards, Part 33.