



Designation: D2301 – 24

# Standard Specification for Vinyl Chloride Plastic Pressure-Sensitive Electrical Insulating Tape<sup>1</sup>

This standard is issued under the fixed designation D2301; 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 reappraisal. A superscript epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or reappraisal.

## 1. Scope

1.1 This specification covers electrical insulating tape consisting of a flexible backing made from vinyl chloride plastic coated on one side with a pressure-sensitive adhesive.

1.2 The values stated in SI units are the standard. The values given in parentheses are provided for information purposes only.

1.3 *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:*<sup>2</sup>

[D1000 Test Methods for Pressure-Sensitive Adhesive-Coated Tapes Used for Electrical and Electronic Applications](#)

[D1711 Terminology Relating to Electrical Insulation](#)

## 3. Terminology

3.1 *Definitions*—For definitions of terms in this specification, refer to Terminology [D1711](#).

## 4. Classification

4.1 This specification covers two types as follows:

4.1.1 *Type I*—General-purpose tape, nominal thickness 0.18 mm (0.007 in.).

4.1.2 *Type II*—General-purpose tape, nominal thickness 0.25 mm (0.010 in.).

<sup>1</sup> This specification is under the jurisdiction of ASTM Committee [D09](#) on Electrical and Electronic Insulating Materials and is the direct responsibility of Subcommittee [D09.07](#) on Electrical Insulating Materials.

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<sup>2</sup> For referenced ASTM standards, visit the ASTM website, [www.astm.org](http://www.astm.org), or contact ASTM Customer Service at [service@astm.org](mailto:service@astm.org). For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

## 5. Materials and Manufacture

5.1 The backing shall be polyvinyl chloride plastic suitably compounded to meet the requirements of this specification. The backing shall be smooth and uniform. The tape edges shall be straight and unbroken.

5.2 The pressure-sensitive adhesive coating shall be smooth and uniform and as free from lumps and bare spots as the best commercial practice will permit. There shall be no adhesive transfer when the tape is unwound from the roll.

5.3 Black plastic backing shall be considered standard. Other colors, opaque or transparent, are acceptable when specified.

## 6. Requirements

6.1 The tape shall meet the requirements given in [Table 1](#) for the type specified.

## 7. Standard Rolls

7.1 The standard widths and lengths shall be selected from the following:

7.1.1 *Widths:*

mm	in.	mm	in.
6	¼	22	⅞
9	⅜	25	1
12	½	30	1¼
15	⅝	38	1½
19	¾	50	2

7.1.1.1 Widths greater than 50 mm (2 in.) shall be agreed upon between the purchaser and the seller.

7.1.2 *Lengths:*

m	ft
6	20
20	66
33	108

7.1.2.1 Additional lengths shall be agreed upon between the purchaser and seller.

## 8. Test Methods

8.1 The selection of rolls, conditioning, and testing shall be in accordance with Test Methods [D1000](#).

## 9. Rejection

9.1 If the test results of any roll do not conform to the requirements prescribed in this specification, two additional