



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

This standard is issued under the fixed designation D3006; 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 ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

## 1. Scope

1.1 This specification covers electrical insulating tape consisting of a backing made from polyethylene plastic film, 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.

## 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. Material

4.1 The backing shall be polyethylene, suitably compounded to meet the requirements of this specification. The backing shall be smooth and uniform. The tape edges shall be straight and unbroken.

4.2 The pressure-sensitive coating shall be smooth and uniform, and essentially free from lumps and bare spots. “Fish eyes” shall not be cause for rejection. There shall be no adhesive transfer when the tape is unwound from the roll.

<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 Flexible and Rigid Insulating Materials.

Current edition approved Nov. 1, 2004. Published May 1999. Originally approved in 1972. Last previous edition approved in 1993 as D3006–89 (1993) <sup>$\epsilon$ 1</sup>. DOI: 10.1520/D3006-99R04.

<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. Standard Rolls

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

5.1.1 *Widths*:

mm	in.	mm	in.
6	1/4	12	1/2
9	3/8	15	5/8
19	3/4	30	1 1/4
22	7/8	38	1 1/2
25	1	50	2

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

5.1.2 *Lengths*:

m	ft
6	20
20	66
33	108

5.1.3 Nonstandard widths and lengths are permissible if agreed to between the purchaser and seller.

## 6. Physical Requirements Physical Requirements

6.1 The tape shall meet the requirements listed in [Table 1](#).

6.2 Black plastic backing shall be considered standard. Backing of a different color than black shall be specified on the purchase order.

## 7. Test Methods

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

## 8. Rejection

8.1 If the test results of any roll do not conform to the requirements prescribed in the specification, two additional rolls shall be selected and tested. If one of the two additional sample rolls also does not conform to the requirements, the lot may be rejected at the option of the purchaser.