



# Standard Specification for Polyester Film Pressure-Sensitive Electrical Insulating Tape<sup>1</sup>

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## 1. Scope

1.1 This specification covers electrical insulating tape consisting of a polyester plastic film coated on one side with a pressure-sensitive adhesive.

1.2 The values stated in SI units are to be regarded as the standard. The values given in parenthesis are provided for information only.

NOTE 1—This standard and IEC 60454–3–2 and –3 are similar but not equivalent in all details.

## 2. Referenced Documents

### 2.1 ASTM Standards:

D 1000 Test Methods for Pressure-Sensitive Adhesive-Coated Tapes Used for Electrical and Electronic Applications<sup>2</sup>

D 1711 Terminology Relating to Electrical Insulation<sup>2</sup>

D 2305 Test Methods for Polymeric Films Used for Electrical Insulation<sup>2</sup>

### 2.2 IEC Standard:

Publication 60454–3 Specifications for Pressure-Sensitive Adhesive Tapes for Electrical Purposes. Sheet 2: Requirements for Polyester Film Tapes (PETP) with Thermosetting Adhesive. Sheet 3: Requirements for Polyester Film Tapes (PETP) with Non-Thermosetting Adhesive<sup>3</sup>

## 3. Terminology

3.1 *Definitions*— For definitions of terms used in this specification, refer to Terminology D 1711.

## 4. Classification

4.1 This specification includes the requirements for four types as follows:

4.1.1 *Type 1*—General-purpose tape, nominal thickness 0.06 mm (0.0025 in.) and coated with a thermoplastic adhesive which is not chemically heat reactive.

4.1.2 *Type 2*—General-purpose tape, nominal thickness 0.06 mm (0.0025 in.) and coated with a heat-reactive thermosetting adhesive.

4.1.3 *Type 3*—General-purpose tape, nominal thickness 0.09 mm (0.0035 in.) and coated with a heat-reactive thermosetting adhesive.

4.1.4 *Type 4*—General-purpose tape, nominal thickness 0.025 mm (0.0010 in.) and coated with a heat-reactive thermosetting adhesive.

## 5. Materials and Manufacture

5.1 The polymer used as the backing shall be clear polyethylene terephthalate sheet.

5.2 The pressure-sensitive adhesive coating shall be free from lumps and bare spots. There shall be no adhesive transfer when tape is unwound from the roll.

5.3 Both transparent and colored tapes are available.

5.3.1 *Type 1*—Transparent.

5.3.2 *Types 2, 3, and 4*—Transparent and colors.

## 6. Standard Rolls

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

### 6.1.1 Widths:

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

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

### 6.1.2 Lengths:

m	ft
33	108
50	164
55	180
66	216

6.2 Non-standard widths and lengths are permissible if agreed upon between the purchaser and seller.

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<sup>2</sup> *Annual Book of ASTM Standards*, Vol 10.01.

<sup>3</sup> Available from American National Standards Institute, 11 W. 42nd St., 13th Floor, New York, NY 10036.