



Designation: D2754 – 10

Standard Specification for High-Temperature Glass Cloth Pressure-Sensitive Electrical Insulating Tape¹

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1. Scope*

1.1 This specification covers requirements for high-temperature electrical insulating tape consisting of glass cloth 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 parentheses are provided for information purposes only.

2. Referenced Documents

2.1 *ASTM Standards*:²

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 of glass cloth tapes, as follows:

4.1.1 *Type I*—Woven glass cloth with silicone adhesive.

4.1.1.1 *Grade A*—0.18 mm (0.007 in.).

4.1.1.2 *Grade B*—0.25 mm (0.010 in.).

4.1.2 *Type II*—Woven glass cloth impregnated with polytetrafluoroethylene, silicone adhesive, nominal thickness 0.13 mm (0.005 in.).

5. Materials and Manufacture

5.1 The tape backing shall consist of woven glass fibers.

¹ 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.

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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.

5.2 The silicone pressure-sensitive adhesive coating shall be smooth and uniform and as free from lumps and bare spots as best commercial practice will permit. The adhesive shall not transfer when the tape is unwound from the roll.

6. Requirements

6.1 All tapes shall meet the requirements given in Table 1 for the types 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	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

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

7.1.2 *Lengths*:

m	ft
6	20
20	66
33	108

7.1.3 Nonstandard widths and lengths are permissible if 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 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.

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