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INTERNATIONAL STANDARD

IEC 60454-2

Third edition
2007-06

Pressure-sensitive adhesive tapes for electrical purposes –

Part 2: Methods of test



Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

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CONTENTS

FOREWORD.....	5
1 Scope.....	7
2 Normative references	7
3 Conditioning and specimen preparation	8
4 Determination of thickness	8
4.1 Test apparatus	8
4.2 Test specimens	8
4.3 Procedure	8
4.4 Results.....	8
5 Determination of width.....	8
5.1 Method A.....	8
5.2 Method B.....	9
5.3 Method C	9
6 Determination of roll length.....	10
6.1 Principle	10
6.2 Method A – Measurement of turns method	10
6.3 Method B – Length sensor method	11
7 Corrosion-related properties	11
7.1 General.....	11
7.2 Preparation of water extract for pH and conductivity determinations	11
7.3 Determination of pH value of water extract	12
7.4 Determination of conductivity of water extract	12
7.5 Detection of corrosive sulfur	13
7.6 Insulation resistance method	14
7.7 Visual method	14
7.8 Wire tensile strength method	14
8 Tensile strength and elongation at break	15
8.1 Apparatus.....	15
8.2 Test specimens	15
8.3 Procedure	15
8.4 Results.....	15
9 Low-temperature properties.....	15
9.1 Principle	15
9.2 Test specimen.....	16
9.3 Procedure	16
9.4 Flexibility.....	16
9.5 Electric strength	16
9.6 Results.....	16
10 Resistance to penetration at elevated temperatures	17
10.1 Apparatus.....	17
10.2 Test specimens	17
10.3 Procedure	17
10.4 Results.....	17
11 Adhesion	17

11.1	Principle	17
11.2	Materials	18
11.3	Apparatus	18
11.4	Test samples and test pieces	19
11.5	Procedure	20
11.6	Expression of results	20
12	Adhesion to backing at low temperatures	21
12.1	Test specimens	21
12.2	Procedure	21
12.3	Results	21
13	Shear adhesion to backing after liquid immersion	21
13.1	Apparatus	21
13.2	Test specimens	21
13.3	Procedure	22
13.4	Results	22
14	Curing properties of thermosetting adhesive tapes	22
14.1	Bond separation during thermal treatment (adhesive to backing)	22
14.2	Bond separation after thermal treatment (adhesion to backing)	22
15	Flagging tests	23
15.1	Principle	23
15.2	Apparatus	23
15.3	Test specimens	23
15.4	Preparation of specimens for test	24
15.5	Test conditions	24
15.6	Results	24
16	Water vapor permeability	24
16.1	Apparatus	24
16.2	Test specimens	24
16.3	Procedure	25
16.4	Results	25
17	Electric strength	25
17.1	General	25
17.2	Test specimens	25
17.3	Procedure	25
17.4	Results	25
18	Electric strength after humid conditioning	26
19	Resistance to flame propagation	26
19.1	Principle	26
19.2	Apparatus	26
19.3	Test specimen	26
19.4	Procedure	27
19.5	Results	27
20	Flame test	27
20.1	Principle	27
20.2	Apparatus	28
20.3	Preparation of test specimen	28
20.4	Procedure	29
20.5	Results	29

21 Thermal endurance	29
21.1 Determination of thermal endurance (based on IEC 60216-1 and IEC 60216-2).....	29
21.2 Voltage breakdown.....	30
21.3 Loss of mass	31
 Annex A (normative) Rollers to be used in various tests.....	 40
 Bibliography.....	 41
 Figure 1 – Measuring device for determination of roll length of tape (measurement of turns method)	 32
Figure 2 – Measuring device for determination of roll length of tape (length sensor method)	32
Figure 3 – Sequence of bends	33
Figure 4 – Dielectric strength test in water	33
Figure 5 – Sketch of penetration tester	34
Figure 6 – Steel test plate	35
Figure 7 – Arrangement for stripping the tape from the plate.....	35
Figure 8 – Flagging test – Preparation of test specimen.....	36
Figure 9a – Draught protection device	37
Figure 9b – Use of Bunsen burner and sliding plate with draught protection device.....	37
Figure 9 – Flame test enclosures	37
Figure 10 – Essential dimensions for flame test (proportions exaggerated for clarity of details)	38
Figure 11 – Dimensions of wedge	39
 Table 1 – Conditioning for low temperature properties	 16

INTERNATIONAL ELECTROTECHNICAL COMMISSION

PRESSURE-SENSITIVE ADHESIVE TAPES FOR ELECTRICAL PURPOSES –

Part 2: Methods of test

FOREWORD

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International Standard IEC 60454-2 has been prepared by IEC technical committee 15: Solid electrical insulating materials.

This third edition cancels and replaces the second edition published in 1994, and constitutes a technical revision. This revision includes improved text regarding the flame test (Clause 20), the improved text on adhesion (Clause 11) and a new Figures 9a and 9b.

The text of this standard is based on the following documents:

FDIS	Report on voting
15/377/FDIS	15/387/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all the parts in the IEC 60454 series, under the general title *Pressure-sensitive adhesive tapes for electrical purposes*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

The contents of the corrigendum of December 2009 have been included in this copy.

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PRESSURE-SENSITIVE ADHESIVE TAPES FOR ELECTRICAL PURPOSES –

Part 2: Methods of test

1 Scope

This part of IEC 60454 specifies methods of test for pressure-sensitive adhesive tapes for electrical purposes.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60216-1:2001, *Electrical insulating materials – Properties of thermal endurance – Part 1: Ageing procedures and evaluation of test results*

IEC 60216-2:2005, *Electrical insulating materials – Thermal endurance properties – Part 2: Determination of thermal endurance properties of electrical insulating materials – Choice of test criteria*

IEC 60216-3:2006, *Electrical insulating materials – Thermal endurance properties – Part 3: Instructions for calculating thermal endurance characteristics*

IEC 60243-1:1998, *Electrical strength of insulating materials – Test methods – Part 1: Tests at power frequencies*

IEC 60426:1973, *Test methods for determining electrolytic corrosion with insulating materials*

IEC 60454-3 (all parts), *Pressure-sensitive adhesive tapes for electrical purposes – Part 3: Specifications for individual materials*

IEC 60589:1977, *Methods of test for the determination of ionic impurities in electrical insulating materials by extraction with liquids*

ISO 383: 1976, *Laboratory glassware – Interchangeable conical ground joints*

ISO 527-3:1995, *Plastics – Determination of tensile properties – Part 3: Test conditions for films and sheets*

ISO 2194:1991, *Industrial screens – Woven wire cloth, perforated plate and electroformed sheet – Designation and nominal sizes of openings*

ISO 3071:2005, *Textiles – Determination of pH of the aqueous extract*

ISO 3599:1976, *Vernier callipers reading to 0,1 and 0,05 mm*

ISO 10093:1998, *Plastics – Fire tests – Standard ignition sources*

EN 1939:2003, *Self-adhesive tapes – Determination of peel adhesion properties* (The peel adhesion test method of Clause 11 is based on test method A of EN 1939:2003. This standard is the result of the harmonisation of AFERA 5001 and PSTC-1,2,3 and 4, ASTM 3330/D, ASTM 3330/M and agreed by JATMA.)

NOTE EN: European Norm (Europe) – AFERA: Association des fabricants européens de rubans auto-adhésifs – PSTC: Pressure sensitive tape council (USA) – ASTM: American society for testing and materials (USA) – JATMA: Japanese adhesive tapes manufacturers association.