



# SLOVENSKI STANDARD

## SIST EN 60674-2:2017

01-maj-2017

Nadomešča:

SIST EN 60674-2:2002

SIST EN 60674-2:2002/A1:2004

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**Specifikacija za plastične folije za električne namene - 2. del: Metode preskušanja  
(IEC 60674-2:2016)**

Specification for plastic films for electrical purposes - Part 2: Methods of test (IEC 60674-2:2016)

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**Ta slovenski standard je istoveten z: EN 60674-2:2017**

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**ICS:**

29.035.20	Plastični in gumeni izolacijski materiali	Plastics and rubber insulating materials
83.140.10	Filmi in folije	Films and sheets

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EUROPEAN STANDARD

**EN 60674-2**

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2017

ICS 17.220.99; 29.035.20

Supersedes EN 60674-2:1998

English Version

Specification for plastic films for electrical purposes -  
Part 2: Methods of test  
(IEC 60674-2:2016)

Spécification pour les films en matière plastique à usages  
électriques - Partie 2: Méthodes d'essai  
(IEC 60674-2:2016)

Bestimmung für Isolierfolien für elektrotechnische Zwecke -  
Teil 2: Prüfverfahren  
(IEC 60674-2:2016)

This European Standard was approved by CENELEC on 2016-12-23. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

**EN 60674-2:2017****European foreword**

The text of document 15/742/CDV, future edition 2 of IEC 60674-2, prepared by IEC/TC 15 "Solid electrical insulating materials" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60674-2:2017.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2017-09-23
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-12-23

This document supersedes EN 60674-2:1998.

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The text of the International Standard IEC 60674-2:2016 was approved by CENELEC as a European Standard without any modification.

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

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

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60212	2010	Standard conditions for use prior to and during the testing of solid electrical insulating materials	EN 60212	2011
IEC 60216	series	Electrical insulating materials - Thermal endurance properties	EN 60216	series
IEC 60243-1	2013	Electric strength of insulating materials - Test methods - Part 1: Tests at power frequencies	EN 60243-1	2013
IEC 60243-2	-	Electric strength of insulating materials - Test methods - Part 2: Additional requirements for tests using direct voltage	EN 60243-2	-
IEC 60250	1969	Recommended methods for the determination of the permittivity and dielectric dissipation factor of electrical insulating materials at power, audio and radio frequencies including metre wavelengths	-	-
IEC 60343	-	Recommended test methods for determining the relative resistance of insulating materials to breakdown by surface discharges	EN 60343	-
IEC 60394-2	1972	Varnished fabrics for electrical purposes - Part 2: Methods of test	-	-
IEC 60426	-	Electrical insulating materials - Determination of electrolytic corrosion caused by insulating materials - Test methods	EN 60426	-
IEC 60454-2	2007	Pressure-sensitive adhesive tapes for electrical purposes - Part 2: Methods of test	EN 60454-2	2007

## EN 60674-2:2017

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60589	-	Methods of test for the determination of ionic impurities in electrical insulating materials by extraction with liquids	HD 381 S1	-
IEC/TR 60648	-	Method of test for coefficients of friction of plastic film and sheeting for use as electrical insulation	-	-
IEC 60674-3	series	Specification for plastic films for electrical purposes - Part 3: Specifications for individual materials	EN 60674-3	series
IEC 62631-3-1	-	Dielectric and resistive properties of solid insulating materials - Part 3-1 Determination of resistive properties (DC methods) - Volume resistance and volume resistivity, general method	EN 62631-3-1	-
IEC 62631-3-2	-	Dielectric and resistive properties of solid insulating materials - Part 3-2 Determination of resistive properties (DC methods) - Surface resistance and surface resistivity	EN 62631-3-2	-
ISO 527-3	1995	Plastics - Determination of tensile properties - Part 3: Test conditions for films and sheets	EN ISO 527-3	1995
ISO 534	-	Paper and board - Determination of thickness, density and specific volume	EN ISO 534	-
ISO 1183-1	-	Plastics - Methods for determining the density of non-cellular plastics - Part 1: Immersion method, liquid pycnometer method and titration method	EN ISO 1183-1	-
ISO 4591	1992	Plastics - Film and sheeting - Determination of average thickness of a sample, and average thickness and yield of a roll, by gravimetric techniques (gravimetric thickness)	-	-
ISO 4592	-	Plastics - Film and sheeting - Determination of length and width	-	-
ISO 4593	-	Plastics - Film and sheeting - Determination of thickness by mechanical scanning	-	-
ISO 6383-1	-	Plastics - Film and sheeting - Determination of tear resistance - Part 1: Trouser tear method	EN ISO 6383-1	-
ISO 6383-2	-	Plastics - Film and sheeting - Determination of tear resistance - Part 2: Elmendorf method	EN ISO 6383-2	-
ISO 11357-3	2011	Plastics - Differential scanning calorimetry (DSC) - Part 3: Determination of temperature and enthalpy of melting and crystallization	EN ISO 11357-3	2013



IEC 60674-2

Edition 2.0 2016-11

# INTERNATIONAL STANDARD

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Specification for plastic films for electrical purposes –  
Part 2: Methods of test

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INTERNATIONAL  
ELECTROTECHNICAL  
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## CONTENTS

FOREWORD.....	6
INTRODUCTION.....	8
1 Scope.....	9
2 Normative references .....	9
3 General notes on tests .....	10
4 Thickness.....	10
4.1 General.....	10
4.2 Determination of thickness by mechanical scanning.....	10
4.2.1 General .....	10
4.2.2 Measurement by a single sheet .....	11
4.3 Determination of thickness by gravimetric method.....	11
4.3.1 Measurement by a sample .....	11
4.3.2 Measurement by a roll .....	11
4.4 Crosswise thickness profile and lengthwise variation in thickness .....	11
5 Density.....	12
6 Width.....	12
7 Windability (bias/camber and sag).....	12
7.1 Principle .....	12
7.2 General.....	12
7.3 Method A .....	12
7.3.1 Principle .....	12
7.3.2 Measurement of bias/camber.....	12
7.3.3 Measurement of sag.....	13
7.4 Method B .....	14
7.4.1 Principle .....	14
7.4.2 Apparatus.....	14
7.4.3 Test specimens .....	15
7.4.4 Procedure.....	15
7.4.5 Result.....	15
8 Surface roughness .....	15
9 Space factor.....	15
10 Coefficient of friction.....	16
11 Wetting tension (polyolefine films).....	16
11.1 Test principle and introductory remarks.....	16
11.2 Apparatus .....	16
11.3 Reagents .....	16
11.4 Test specimens.....	17
11.5 Conditioning.....	17
11.6 Procedure .....	17
11.7 Evaluation.....	18
11.8 Report.....	18
12 Tensile properties.....	18
12.1 General.....	18
12.2 Test specimens.....	18
12.3 Speed of testing.....	18



12.4	Result .....	18
13	Edge tearing resistance .....	19
13.1	General.....	19
13.2	Principle .....	19
14	Tear resistance.....	19
15	Stiffness of film.....	19
16	Surface resistivity .....	19
17	Volume resistivity .....	19
17.1	Method 1: Electrode method .....	19
17.2	Method 2: Method for wound capacitor dielectric films or films too thin for Method 1.....	19
17.2.1	Principle .....	19
17.2.2	Test specimens .....	20
17.2.3	Procedure.....	20
17.2.4	Result.....	20
18	Dissipation factor and permittivity .....	20
18.1	General.....	20
18.2	Method 1.....	20
18.2.1	General .....	20
18.2.2	Sample and specimen handling .....	21
18.2.3	Sample conditioning prior to measurement .....	21
18.2.4	Measurements with contacting electrodes.....	21
18.2.5	Measurements with non-contacting electrodes.....	23
18.2.6	Test procedure .....	23
18.2.7	Report .....	23
18.3	Method 2.....	23
18.3.1	General .....	23
18.3.2	Dissipation factor at or above $5 \times 10^{-4}$ .....	24
18.3.3	Dissipation factor below $5 \times 10^{-4}$ .....	24
19	Dissipation factor under impregnated conditions .....	24
20	Electric strength .....	24
20.1	AC and DC tests of film sheet sandwiched by metal electrodes.....	24
20.2	DC test using a wound capacitor.....	24
21	Electrical weak spots .....	24
21.1	General.....	24
21.2	Method A: Testing narrow strips of film in long lengths.....	25
21.2.1	Test equipment.....	25
21.2.2	Procedure.....	25
21.2.3	Results .....	25
21.3	Method B: Testing wide strips of film.....	25
21.3.1	General .....	25
21.3.2	Test equipment.....	25
21.3.3	Procedure.....	26
21.3.4	Results .....	26
21.4	Method C: Testing of film in rolls.....	26
21.4.1	General .....	26
21.4.2	Unreeling system.....	26
21.4.3	Fault counter .....	27

21.4.4	Procedure.....	27
21.4.5	Results .....	27
22	Resistance to breakdown by surface discharges.....	28
23	Electrolytic corrosion .....	28
24	Melting point.....	28
25	Dimensional change .....	28
25.1	Test specimens.....	28
25.2	Procedure .....	28
25.3	Results .....	28
26	Dimensional stability under tension with rising temperature .....	29
26.1	Test specimens.....	29
26.2	Procedure .....	29
26.3	Results .....	29
27	Dimensional stability under pressure with rising temperature .....	29
27.1	Test equipment.....	29
27.2	Test specimens.....	29
27.3	Procedure .....	29
27.4	Results .....	30
28	Resistance to penetration at elevated temperature .....	30
28.1	General.....	30
28.2	Principle .....	30
29	Volatile content (loss of mass on heating).....	30
29.1	Test specimens.....	30
29.2	Procedure.....	30
29.3	Result .....	30
30	Thermal endurance.....	30
31	Burning characteristics .....	31
31.1	Principle .....	31
31.2	Apparatus .....	31
31.3	Test specimens.....	31
31.4	Conditioning.....	31
31.5	Procedure .....	32
31.6	Interpretation of results .....	32
32	Water absorption in a damp atmosphere.....	33
32.1	Apparatus .....	33
32.2	Test specimens.....	33
32.3	Procedure .....	33
32.3.1	Water absorption of material as-received.....	33
32.3.2	Water absorption of dry material.....	33
32.4	Results .....	34
33	Absorption of liquid.....	34
33.1	Principle .....	34
33.2	Apparatus .....	34
33.3	Test specimens.....	34
33.4	Procedure .....	34
33.5	Calculations .....	35
33.6	Result .....	35

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SIST EN 60674-2:2017

<https://standards.itech.ai/catalog/standards/sist/d8c5bd22-341f-41c8-a6a1-0ef29cbce894/sist-en-60674-2-2017>

34	Ionic impurities .....	35
35	Effect of insulating varnishes .....	35
35.1	Procedure .....	35
35.2	Results .....	35
36	Effect of polymerisable resinous compounds in a liquid state.....	36
36.1	Procedure .....	36
36.2	Results .....	36
Figure 1	– Windability of film – Measurement of bias/camber – Method A .....	36
Figure 2	– Windability of film – Apparatus for measurement of sag – Method A.....	37
Figure 3	– Windability of film – Measurement of sag – Method A.....	37
Figure 4	– Three-terminal electrode system for low frequencies (up to 50 kHz).....	38
Figure 5	– Two-electrode system for high frequencies (above 50 kHz).....	38
Figure 6	– Equipment for testing for electrical weak spots by Method A .....	39
Figure 7	– Equipment for testing for electrical weak spots by Method B .....	40
Figure 8	– Equipment for testing for electrical weak spots by Method C1 .....	40
Figure 9	– Equipment for testing for electrical weak spots by Method C2 .....	41
10a)	Full view on arrangements of rolls, rollers and HV electrode .....	41
10b)	Schematic diagram with arrangement around the air gap .....	41
	between HV electrode and earthed roller .....	41
Figure 10	– Equipment for testing for electrical weak spots by Method C3 .....	41
<u>SIST EN 60674-2:2017</u>		
Table 1	– Concentrations of ethylene-glycol-monoethyl-ether, formamide mixtures used in measuring wetting tension of polyethylene and polypropylene films .....	17
Table 2	– Classification of materials regarding self-extinguishing properties .....	33

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**SPECIFICATION FOR PLASTIC FILMS  
FOR ELECTRICAL PURPOSES –****Part 2: Methods of test****FOREWORD**

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International Standard IEC 60674-2 has been prepared by IEC technical committee 15: Solid electrical insulating materials.

This second edition cancels and replaces the first edition published in 1988 and Amendment 1 (2001). This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) this document was completely revised editorially and technically and included in the IEC 60674 series of standards;
- b) the test methods are updated to reflect today's state of the art;
- c) a method to obtain DC electric strength is now specified according to IEC 60243-2.

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

CDV	Report on voting
15/742/CDV	15/760/RVC

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

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

A list of all parts in the IEC 60674 series, published under the general title *Specification for plastic films for electrical purposes*, can be found on the IEC website.

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

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
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A bilingual version of this publication may be issued at a later date

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