

Corrugated pressboard and presspaper for electrical purposes—

Part 2: Methods of test

The European Standard EN 61628-2:1999, incorporating amendment A1:2007, has the status of a British Standard

ICS 29.035.10

National foreword

This British Standard is the UK implementation of EN 61628-2:1999, incorporating amendment A1:2007. It is identical with IEC 61628-2:1998, incorporating amendment 1:2007.

The start and finish of text introduced or altered by amendment is indicated in the text by tags **A1** **A1**. Tags indicating changes to IEC text carry the number of the IEC amendment. For example, text altered by IEC amendment 1 is indicated by **A1** **A1**.

The UK participation in its preparation was entrusted by Technical Committee GEL/15, Insulating materials, to Subcommittee GEL/15/3, Material specifications.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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This British Standard was published under the authority of the Standards Committee and comes into effect on 15 April 1999

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ISBN 978 0 580 60702 8

Amendments issued since publication

Amd. No.	Date	Comments
17476	31 January 2008	See national foreword

ICS 29.035.10

Descriptors: Electrical insulating materials, solid electrical insulating materials, paper, paperboards, pressboards, corrugated cardboards, tests, shrinkage, compressive strength

English version

Corrugated pressboard and presspaper for electrical purposes Part 2: Methods of test

(IEC 61628-2:1998)

Cartons et papiers comprimés ondulés à usages
électriques
Partie 2: Méthodes d'essais
(CEI 61628-2:1998)

Wellspan für elektrotechnische Zwecke
Teil 2: Prüfverfahren
(IEC 61628-2:1998)

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat 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 Central Secretariat has the same status as the official versions.

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CENELEC

European Committee for Electrotechnical Standardization
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Foreword

The text of document 15C/992/FDIS, future edition 1 of IEC 61628-2, prepared by SC 15C, Specifications, of IEC TC 15, Insulating materials, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61628-2 on 1999-01-01.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1999-10-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2000-10-01

Annexes designated “normative” are part of the body of the standard. In this standard, Annex ZA is normative. Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61628-2:1998 was approved by CENELEC as a European Standard without any modification.

Foreword to amendment A1

The text of document 15/293/CDV, future amendment 1 to IEC 61628-2:1998, prepared by IEC TC 15, Solid electrical insulating materials, was submitted to the IEC-CENELEC parallel Unique Acceptance Procedure and was approved by CENELEC as amendment A1 to EN 61628-2:1998 on 2007-07-01.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2008-04-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2010-07-01

Endorsement notice

The text of amendment 1:2007 to the International Standard IEC 61628-2:1998 was approved by CENELEC as an amendment to the European Standard without any modification.

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Introduction

This part of IEC 61628 is one of a series which deals with corrugated pressboard and presspaper for electrical purposes.

This series consists of three parts:

- IEC 61628-1:1997, *Corrugated pressboard and presspaper for electrical purposes — Part 1: Definitions, designations and general requirements.*
- IEC 61628-2:1998, *Corrugated pressboard and presspaper for electrical purposes — Part 2: Methods of test.*
- IEC 61628-3, *Corrugated pressboard and presspaper for electrical purposes — Part 3: Specification for individual materials.* (under consideration)

1 Scope

This part of IEC 61628 gives methods of test applicable for the materials classified in IEC 61628-1.

2 Normative reference

The following normative document contains provisions which, through reference in this text, constitutes provisions of this part of IEC 61628. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of IEC 61628 are encouraged to investigate the possibility of applying the most recent editions of the normative document indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

 IEC 60641-2:2004, *Pressboard and presspaper for electrical purposes — Part 2: Methods of test* 

3 General note on tests

It is recommended to use a high-speed band saw with a cut width less than 1 mm to make the test specimens. The burrs made by cutting should be carefully removed.

 Unless otherwise specified, the test specimens after being cut, shall be conditioned according to IEC 60641-2. 

4 Type and dimension of corrugation

The shape and type of corrugation are defined by wavelength, maximum amplitude, the length of horizontal parts, angle of slope and the board thickness out of which the corrugated material is made (see Figure 1a and Figure 1b).

The following tests are made on the material as received.

4.1 Wavelength

4.1.1 Procedure

Cut at least three test samples, each test sample having a length greater than three complete wavelengths.

With a pencil, mark the starting line of the first wavelength and the end line of the last wavelength (minimum three wavelengths).

(The best starting and end line of a wavelength is the line of maximum amplitude for a sine type corrugation and the centre of a horizontal part in an angular type corrugation.)

Lay the test sample on a flat surface with no strain applied.

Measure with a ruler (precise to 0,5 mm) the distance between the pencil lines.

Divide the measured value by the number of wavelengths between the lines.

4.1.2 Results

Report the mean, minimum and maximum values of the measurements.

4.2 Amplitude

4.2.1 Procedure

Cut at least nine specimens, each being (100 ± 10) mm wide, and one-and-a-half to two wavelengths in length, so that two full bottom peaks are included.

Lay the test specimens on a flat surface with no strain applied.

With a gauge (precise to 0,1 mm), measure the distance between the highest point and the lowest point.

4.2.2 Results

Report the mean, minimum and maximum values of the measurements.