
Materials for printed boards and other interconnecting structures - Part 2-18: Reinforced base materials, clad and unclad - Polyester non-woven fibreglass reinforced laminated sheet of defined flammability (vertical burning test), copper-clad

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Materialien für Leiterplatten und andere Verbindungsstrukturen -- Teil 2-18: Kaschierte und unkaschierte verstärkte Basismaterialien - Kupferkaschierte mit Glaswirrfasern verstärkte Polyesterharz-Laminattafeln definierter Brennbarkeit (Brennprüfung mit vertikaler Prüflingslage)

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Matériaux pour circuits imprimés et autres structures d'interconnexion -- Partie 2-18: Matériaux de base renforcés, plaqués et non plaqués - Feuille stratifiée renforcée de fibres de verre non tissées polyester, d'inflammabilité définie (essai de combustion verticale), plaquée cuivre

Ta slovenski standard je istoveten z: EN 61249-2-18:2002

ICS:

31.180 Vā \ aē aē^: bē \ Q Dē Āē \ aē ^ Printed circuits and boards
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EUROPEAN STANDARD

EN 61249-2-18

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2002

ICS 31.180

English version

Materials for printed boards and other interconnecting structures
Part 2-18: Reinforced base materials, clad and unclad -
Polyester non-woven fibreglass reinforced laminated sheet
of defined flammability (vertical burning test), copper-clad
(IEC 61249-2-18:2002)

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This European Standard was approved by CENELEC on 2002-03-01. 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 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 91/271/FDIS, future edition 1 of IEC 61249-2-18, prepared by IEC TC 91, Electronics assembly technology, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61249-2-18 on 2002-03-01.

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) 2002-12-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2005-03-01

Annexes designated "normative" are part of the body of the standard.
Annexes designated "informative" are given for information only.
In this standard, annex ZA is normative and annex A is informative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61249-2-18:2002 was approved by CENELEC as a European Standard without any modification.

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61189-2	1997	Test methods for electrical materials, printed boards and other interconnection structures and assemblies Part 2: Test methods for materials for interconnection structures	EN 61189-2 + corr. August	1997 1997
A1	2000	Materials for interconnection structures Part 5: Sectional specification set for conductive foils and films with and without coatings Section 1: Copper foils (for the manufacture of copper-clad base materials)	A1	2000
IEC 61249-5-1	1995	Materials for interconnection structures Part 5: Sectional specification set for conductive foils and films with and without coatings Section 1: Copper foils (for the manufacture of copper-clad base materials)	EN 61249-5-1	1996
ISO 9000	2000	Quality management systems Fundamentals and vocabulary	EN ISO 9000	2000
ISO 11014-1	1994	Safety data sheet for chemical products Part 1: Content and order of sections	-	-
ISO 14001	1996	Environmental management systems Specification with guidance for use	EN ISO 14001	1996

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**NORME
INTERNATIONALE
INTERNATIONAL
STANDARD**

**CEI
IEC**

61249-2-18

Première édition
First edition
2002-02

**Matériaux pour circuits imprimés et autres
structures d'interconnexion –**

Partie 2-18:

Matériaux de base renforcés, plaqués

et non plaqués –

**Feuille stratifiée renforcée de fibres de verre
non tissées polyester, d'inflammabilité définie
(essai de combustion verticale), plaquée cuivre**

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**Materials for printed boards and other
interconnecting structures –**

Part 2-18:

Reinforced base materials, clad and unclad –

**Polyester non-woven fibreglass reinforced
laminated sheet of defined flammability
(vertical burning test), copper-clad**

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**MATERIALS FOR PRINTED BOARDS
AND OTHER INTERCONNECTING STRUCTURES –**
**Part 2-18: Reinforced base materials, clad and unclad –
Polyester non-woven fibreglass reinforced laminated sheet
of defined flammability (vertical burning test), copper-clad**

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international cooperation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 61249-2-18 has been prepared by IEC technical committee 91: Electronics assembly technology.

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

FDIS	Report on voting
91/271/FDIS	91/283/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 3.

Annex A is given for information only.

IEC 61249-2 consists of the following parts, under the general title *Materials for printed boards and other interconnecting structures – Part 2: Reinforced base materials, clad and unclad*:

IEC 61249-2-1	Phenolic cellulose paper laminate, economic grade ¹⁾
IEC 61249-2-2	Phenolic cellulose paper laminate, high electrical grade ¹⁾
IEC 61249-2-4	Polyester non-wove/woven fibreglass laminated sheet of defined flammability (vertical burning test), copper-clad
IEC 61249-2-7	Epoxide woven E-glass laminated sheet of defined flammability (vertical burning test), copper-clad ²⁾
IEC 61249-2-9	Bismaleimide/triazine, epoxide modified or unmodified, woven E-glass laminated sheet of defined flammability (vertical burning test), copper-clad ²⁾
IEC 61249-2-10	Cyanate ester, epoxide modified or unmodified, woven E-glass laminated sheet of defined flammability (vertical burning test), copper-clad ²⁾
IEC 61249-2-11	Polyimide, epoxide modified or unmodified, woven E-glass laminated sheet of defined flammability (vertical burning test), copper-clad ²⁾
IEC 61249-2-19	Epoxide coherent cross-plyed linear fibreglass laminated sheet of defined flammability (vertical burning test), copper-clad

The committee has decided that the contents of this publication will remain unchanged until 2004. At this date, the publication will be

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

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¹⁾ Under consideration

²⁾ To be published.