
**Materiali za tiskane plošče in druge povezovalne strukture –2-5. del:
Pokovinjeni in nepokovinjeni ojačeni osnovni materiali – Z bakrom
pokovinjeni laminat z določeno gorljivostjo (navpični preskus gorljivosti), ki
ima jedro ojačeno z bromiranim epoksidnim celuloznim papirjem in površino
s tkanim E-steklom. (IEC 61249-2-5:2003)***

Materials for printed boards and other interconnecting structures - Part 2-5:
Reinforced base materials, clad and unclad - Brominated epoxide cellulose paper
reinforced core / woven E-glass reinforced surfaces laminated sheets of defined
flammability (vertical burning test), copper-clad (IEC 61249-2-5:2003)

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**Materials for printed boards and other interconnecting structures
Part 2-5: Reinforced base materials, clad and unclad –
Brominated epoxide cellulose paper reinforced core /
woven E-glass reinforced surfaces laminated sheets
of defined flammability (vertical burning test), copper-clad
(IEC 61249-2-5:2003)**

Matériaux pour circuits imprimés et autres structures d'interconnexion

Partie 2-5: Matériaux de base renforcés, plaqués et non plaqués –

Feuilles stratifiées avec couches centrales renforcées en papier cellulose époxyde bromé et couches superficielles renforcées en tissu de verre de type E époxyde, d'inflammabilité définie (essai de combustion verticale), plaquées cuivre
(CEI 61249-2-5:2003)

Materialien für Verbindungsstrukturen

Teil 2-5: Kaschierte und unkaschierte verstärkte Basismaterialien –

Kupferkaschierte mit Zellulose-Papier-Innenlagen und E-Glasgewebe-Außenlagen verstärkte Laminatplatten auf der Basis von bromiertem Epoxidharz mit definierter Brennbarkeit (Brennprüfung mit vertikaler Prüflingslage)
(IEC 61249-2-5:2003)

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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 91/410/FDIS, future edition 1 of IEC 61249-2-5, prepared by IEC TC 91, Electronics assembly technology, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61249-2-5 on 2003-12-01.

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) 2004-09-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2006-12-01

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 annexes A, B and C are informative.

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61249-2-5:2003 was approved by CENELEC as a European Standard without any modification.

~~SIST EN 61249-2-5:2004~~
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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 + corr. June	1997 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
IEC 61249-5-1	1995	Materials for interconnection structures Part 5: Sectional specification set for conductive foils and films with or 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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61249-2-5

Première édition
First edition
2003-11

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

Partie 2-5:

**Matériaux de base renforcés, plaqués et non
plaqués – Feuilles stratifiées avec couches
centrales renforcées en papier cellulose époxyde
bromé et couches superficielles renforcées en
tissu de verre de type E époxyde, d'inflammabilité
définie (essai de combustion verticale),
plaquées cuivre**

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

Part 2-5:

**Reinforced base materials, clad and unclad –
Brominated epoxide cellulose paper reinforced
core / woven E-glass reinforced surfaces
laminated sheets of defined flammability
(vertical burning test), copper-clad**

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International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

MATERIALS FOR PRINTED BOARDS AND OTHER INTERCONNECTING STRUCTURES –

Part 2-5: Reinforced base materials, clad and unclad – Brominated epoxide cellulose paper reinforced core / woven E-glass reinforced surfaces laminated sheets of defined flammability (vertical burning test), copper-clad

FOREWORD

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International Standard IEC 61249-2-5 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
91/410/FDIS	91/426/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.

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*:

- Part 2-1: Phenolic cellulose paper laminate, economic grade
- Part 2-2: Phenolic cellulose paper reinforced laminated sheets, high electrical grade, copper-clad
- Part 2-4: Polyester non-woven/woven fibreglass laminated sheet of defined flammability (vertical burning test), copper-clad
- Part 2-5: Brominated epoxide cellulose paper reinforced core/woven E-glass reinforced surfaces laminated sheets of defined flammability (vertical burning test), copper-clad
- Part 2-6: Brominated epoxide non-woven/woven, E-glass reinforced laminated sheets of defined flammability (vertical burning test), copper-clad
- Part 2-7: Epoxide woven E-glass laminated sheet of defined flammability (vertical burning test), copper-clad
- Part 2-8: Modified brominated epoxide woven fibreglass reinforced laminated sheets of defined flammability (vertical burning test), copper clad
- Part 2-9: Bismaleimide/triazine modified epoxide or unmodified, woven E-glass reinforced laminated sheets of defined flammability (vertical burning test), copper-clad
- Part 2-10: Cyanate ester, brominated epoxide, modified or unmodified, woven E-glass reinforced laminated sheets of defined flammability (vertical burning test), copper-clad
- Part 2-11: Polyimide, brominated epoxide modified or unmodified, woven E-glass reinforced laminated sheets of defined flammability (vertical burning test), copper-clad
- Part 2-12: Epoxide non-woven aramid laminate of defined flammability, copper-clad
- Part 2-13: Cyanate ester non-woven aramid laminate of defined flammability, copper-clad
- Part 2-18: Polyester non-woven fibreglass reinforced laminated sheet of defined flammability (vertical burning test), copper-clad
- Part 2-19: Epoxide cross-ply linear fibreglass-reinforced laminated sheets of defined flammability (vertical burning test), copper-clad
- Part 2-21: Non-halogenated epoxide woven E-glass reinforced laminated sheets of defined flammability (vertical burning test), copper-clad
- Part 2-22: Modified non-halogenated epoxide woven E-glass laminated sheets of defined flammability (vertical burning test), copper-clad¹

¹ Under consideration.