

A UHf]U]`nUd`cý Y`hg_Ub]`j Yn]`b`Xfi [Y`dcj Yncj UbY`gfi _hi fY!`&' , "XY.
 C`U Yb]`Ua]bUH]`n`VU_fYbc`Z`]`c`]b`VfYn`b`Y!`G`ghY`Ybc`h_Ub]bc`c`U Yb]`Ua]bUH]`n
 Xc`c Ybc`[cf`]j cgh`c`fbUj d] b]`dfYg_i g[cf`]j cgh]ZcVXYUb]`n`b`Y Uc[Yb]fUbc
 Ydc_g]Xbc`ga c`c`Z`Uy]fUb]`n`VU_fYbc`Z`]`c`ZnUa cbHjyc`VfYn`gj]bWUfH7`*`%&(-!&
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Materials for printed boards and other interconnecting structures -- Part 2-38: Reinforced
 base materials, clad and unclad - Non-halogenated epoxide woven E-glass laminate
 sheets of defined flammability (vertical burning test), copper-clad for lead-free assembly

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Matériaux pour circuits imprimés et autres structures d'interconnexion -- Partie 2-38:
 Matériaux de base renforcés, plaqués et non plaqués - Feuilles stratifiées en tissu de
 verre de type E époxyde non halogénées, plaquées cuivre, d'inflammabilité définie (essai
 de combustion verticale) pour les assemblages sans plomb

Ta slovenski standard je istoveten z: EN 61249-2-38:2009

ICS:

31.180 Vā\ æ æ^: bæVQDæ Åæ\ æ ^ Printed circuits and boards
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 61249-2-38

March 2009

ICS 31.180

English version

**Materials for printed boards and other interconnecting structures -
Part 2-38: Reinforced base materials, clad and unclad -
Non-halogenated epoxide woven E-glass laminate sheets
of defined flammability (vertical burning test),
copper-clad for lead-free assembly
(IEC 61249-2-38:2008)**

Matériaux pour circuits imprimés
et autres structures d'interconnexion -
Partie 2-38: Matériaux de base renforcés,
plaqués et non plaqués -
Feuilles stratifiées en tissu de verre
de type E époxyde non halogénées,
plaquées cuivre, d'inflammabilité définie
(essai de combustion verticale)
pour les assemblages sans plomb
(CEI 61249-2-38:2008)

Materialien für Leiterplatten
und andere Verbindungsstrukturen -
Teil 2-38: Kaschierte und unkaschierte
verstärkte Basismaterialien -
Kupferkaschierte mit E-Glasgewebe
verstärkte Laminattafeln auf der Basis
von halogenfreiem Epoxidharz
mit definierter Brennbarkeit
(Brennprüfung mit vertikaler Prüflingslage)
für bleifreie Bestückungstechnik
(IEC 61249-2-38:2008)

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This European Standard was approved by CENELEC on 2009-02-01. 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, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

CENELEC

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

Central Secretariat: avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 91/812/FDIS, future edition 1 of IEC 61249-2-38, prepared by IEC TC 91, Electronics assembly technology, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61249-2-38 on 2009-02-01.

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) 2009-11-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2012-02-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61249-2-38:2008 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 60194

NOTE Harmonized as EN 60194:2006 (not modified).

[SIST EN 61249-2-38:2009
https://standards.iteh.ai/catalog/standards/sist/a56f1c16-d40c-46d4-b57f-
2ba431f7979/sist-en-61249-2-38-2009](https://standards.iteh.ai/catalog/standards/sist/a56f1c16-d40c-46d4-b57f-2ba431f7979/sist-en-61249-2-38-2009)

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

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	2006	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	2006
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	- ¹⁾	Quality management systems - Fundamentals and vocabulary	EN ISO 9000	2005 ²⁾
ISO 11014-1	- ¹⁾	Safety data sheet for chemical products - Part 1: Content and order of sections	-	-
ISO 14001	- ¹⁾	Environmental management systems - Requirements with guidance for use	EN ISO 14001	2004 ²⁾

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

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IEC 61249-2-38

Edition 1.0 2008-11

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Materials for printed boards and other interconnecting structures –
Part 2-38: Reinforced base materials, clad and unclad – Non-halogenated
epoxide woven E-glass laminate sheets of defined flammability (vertical burning
test), copper-clad for lead-free assembly**

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**Matériaux pour circuits imprimés et autres structures d'interconnexion –
Partie 2-38: Matériaux de base renforcés, plaqués et non plaqués – Feuilles
stratifiées en tissu de verre de type E époxyde non halogénées, plaquées
cuivre, d'inflammabilité définie (essai de combustion verticale) pour les
assemblages sans plomb**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

MATERIALS FOR PRINTED BOARDS AND OTHER INTERCONNECTING STRUCTURES –

Part 2-38: Reinforced base materials, clad and unclad – Non-halogenated epoxide woven E-glass laminate sheets of defined flammability (vertical burning test), copper-clad for lead-free assembly

FOREWORD

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International Standard IEC 61249-2-38 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
91/812/FDIS	91/834/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 parts of the IEC 61249 series, under the general title *Materials for printed boards and other interconnecting structures*, 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.

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