

Materials for printed boards and other interconnecting structures —

Part 2-26: Reinforced base materials, clad and unclad — Non-halogenated epoxide non-woven/woven E-glass reinforced laminated sheets of defined flammability (vertical burning test), copper-clad

The European Standard EN 61249-2-26:2005 has the status of a British Standard

ICS 31.180

National foreword

This British Standard is the official English language version of EN 61249-2-26:2005. It is identical with IEC 61249-2-26:2005.

The UK participation in its preparation was entrusted to Technical Committee EPL/501, Electronic assembly technology, which has the responsibility to:

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Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 24, an inside back cover and a back cover.

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**Materials for printed boards and other interconnecting structures
Part 2-26: Reinforced base materials, clad and unclad –
Non-halogenated epoxide non-woven/woven E-glass reinforced
laminated sheets of defined flammability
(vertical burning test), copper-clad
(IEC 61249-2-26:2005)**

Matériaux pour circuits imprimés
et autres structures d'interconnexion
Partie 2-26: Matériaux de base renforcés,
plaqués et non plaqués –
Feuilles stratifiées renforcées en tissu
de verre de type époxyde tissé/non tissé,
non-halogéné, d'inflammabilité définie
(essai de combustion verticale),
plaquées cuivre
(CEI 61249-2-26:2005)

Materialien für Leiterplatten
und andere Verbindungsstrukturen
Teil 2-26: Kaschierte und unkaschierte
verstärkte Basismaterialien –
Kupferkaschierte halogenfreie mit E-Glas-
Wirrfaser-Innenlagen/E-Glas-Gewebe-
Decklagen verstärkte Epoxidharz-
Laminattafeln definierter Brennbarkeit
(Brennprüfung mit vertikaler Prüflingslage)
(IEC 61249-2-26:2005)

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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 91/496/FDIS, future edition 1 of IEC 61249-2-26, prepared by IEC TC 91, Electronics assembly technology, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61249-2-26 on 2005-02-01.

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) | 2005-11-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2008-02-01 |

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61249-2-26:2005 was approved by CENELEC as a European Standard without any modification.

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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 reinforced laminated sheets, economic grade, copper clad
- Part 2-2: Phenolic cellulose paper reinforced laminated sheets, high electrical grade, copper-clad
- Part 2-4: Polyester non-woven/woven fibreglass laminated sheets of defined flammability (vertical burning test), copper-clad
- Part 2-5: Brominated epoxide cellulose paper reinforced core/woven E-glass reinforced surfaces laminate 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-clad
- Part 2-23: Non-halogenated phenolic, cellulose paper reinforced laminated sheets, economic grade, copper-clad
- Part 2-26: Non-halogenated epoxide, nonwoven/woven E-glass reinforced laminated sheets of defined flammability (vertical burning test), copper-clad

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.

MATERIALS FOR PRINTED BOARDS AND OTHER INTERCONNECTING STRUCTURES –

Part 2-26: Reinforced base materials clad and unclad – Non-halogenated epoxide non-woven/woven E-glass reinforced laminated sheets of defined flammability (vertical burning test), copper-clad

1 Scope

This part of IEC 61249 gives requirements for properties of non-halogenated epoxide non-woven/woven reinforced E-glass laminated sheets of defined flammability (vertical burning test), copper-clad in thicknesses of 0,80 mm up to 1,60 mm. The flammability rating is achieved through the use of non-halogenated inorganic and/or organic compounds acting as fire retardants. These fire retardants are contained as part of polymeric structure or in addition to it. The glass transition temperature is defined to be 95 °C minimum.

Some property requirements may have several classes of performance. The class desired must be specified on the purchase order, otherwise the default class of material may be supplied.

2 Normative references

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.

IEC 60194:1999, *Printed board design, manufacture and assembly – Terms and definitions*

IEC 61189-2:1997, *Test methods for electrical materials, interconnection structures and assemblies – Part 2: Test method for interconnection structures*

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)*

ISO 9000:2000, *Quality management systems – Fundamentals and vocabulary*

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*