



National Standards Authority of Ireland

IRISH STANDARD

**I.S. EN 61249-2-11:2004**

ICS 31.180

**MATERIALS FOR PRINTED BOARDS AND  
OTHER INTERCONNECTING STRUCTURES  
PART 2-11: REINFORCED BASE MATERIALS,  
CLAD AND UNCLAD -  
POLYIMIDE, BROMINATED EPOXIDE  
MODIFIED OR UNMODIFIED, WOVEN  
E-GLASS REINFORCED LAMINATED SHEETS  
OF DEFINED FLAMMABILITY (VERTICAL  
BURNING TEST), COPPER-CLAD  
(IEC 61249-2-11:2003)**

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EUROPEAN STANDARD

**EN 61249-2-11**

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2003

ICS 31.180

English version

**Materials for printed boards and other interconnecting structures  
Part 2-11: Reinforced base materials, clad and unclad –  
Polyimide, brominated epoxide modified or unmodified,  
woven E-glass reinforced laminated sheets of defined flammability  
(vertical burning test), copper-clad  
(IEC 61249-2-11:2003)**

Materiaux pour circuits imprimés et autres structures d'interconnexion  
Partie 2-11: Matériaux de base renforcés, plaqués et non plaqués –  
Feuilles stratifiées renforcées en polyimide et tissu de verre de type E époxyde bromé modifié ou non modifié, d'inflammabilité définie (essai de combustion verticale), plaquées cuivre  
(CEI 61249-2-11:2003)

Materialien für Verbindungsstrukturen  
Teil 2-11: Kaschierte und unkaschierte verstärkte Basismaterialien –  
Kupferkaschierte mit E-Glasgewebe verstärkte Laminattafeln auf der Basis von Polyimid und bromiertem Epoxidharz, modifiziert oder nicht-modifiziert, mit definierter Brennbarkeit  
(Brennprüfung mit vertikaler Prüflingslage)  
(IEC 61249-2-11:2003)

This European Standard was approved by CENELEC on 2003-12-01. 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, Hungary, Iceland, Ireland, Italy, Lithuania, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, 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 91/412/FDIS, future edition 1 of IEC 61249-2-11, prepared by IEC TC 91, Electronics assembly technology, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61249-2-11 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.

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## Endorsement notice

The text of the International Standard IEC 61249-2-11:2003 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 + 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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**Matériaux pour circuits imprimés  
et autres structures d'interconnexion –**

**Partie 2-11:**

**Matériaux de base renforcés, plaqués et non  
plaqués – Feuilles stratifiées renforcées en  
polyimide et tissu de verre de type E époxyde  
bromé modifié ou non modifié, d'inflammabilité  
définie (essai de combustion verticale),  
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