



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 61249-2-12:1999

ICS 31.180

**MATERIALS FOR PRINTED BOARDS AND  
OTHER INTERCONNECTING STRUCTURES.  
PART 2-12: SECTIONAL SPECIFICATION SET  
FOR REINFORCED BASE MATERIALS, CLAD  
AND UNCLAD - EPOXIDE NON-WOVEN  
ARAMID LAMINATE OF DEFINED  
FLAMMABILITY, COPPER-CLAD  
(IEC 61249-2-12:1999)**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 61249-2-12**

April 1999

ICS 31.180

English version

**Materials for printed boards and other interconnecting structures  
Part 2-12: Sectional specification set for reinforced base materials,  
clad and unclad - Epoxide non-woven aramid laminate of defined  
flammability, copper-clad  
(IEC 61249-2-12:1999)**

Matériaux pour circuits imprimés et autres structures d'interconnexion  
Partie 2-12: Collection de spécifications intermédiaires pour les matériaux de base renforcés, recouverts ou non de feuille conductrice - Stratifié à base d'aramide non tissé collé avec de la résine époxyde, recouvert de cuivre, d'inflammabilité définie  
(CEI 61249-2-12:1999)

Materialien für Leiterplatten und andere Verbindungsstrukturen  
Teil 2-12: Rahmenspezifikation für verstärkte, kaschierte und unkaschierte Basismaterialien Aramidwirrfaser-verstärktes Epoxidharz-Laminat mit definierter Brennbarkeit, kupferkaschiert  
(IEC 61249-2-12:1999)

This European Standard was approved by CENELEC on 1999-04-01. 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, 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 52/772/FDIS, future edition 1 of IEC 61249-2-12, prepared by IEC TC 52, Printed circuits, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61249-2-12 on 1999-04-01.

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} 2000-01-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn {dow} 2002-01-01

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.

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### Endorsement notice

The text of the International Standard IEC 61249-2-12:1999 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
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



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