### SLOVENSKI STANDARD

### SIST EN 61249-2-8:2003

november 2003

Materials for printed boards and other interconnecting structures - Part 2-8: Reinforced base materials clad and unclad - Modified brominated epoxide woven fibreglass reinforced laminated sheets of defined flammability (vertical burning test), copper-clad (IEC 61249-2-8:2003)

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<u>SIST EN 61249-2-8:2003</u> https://standards.iteh.ai/catalog/standards/sist/3dc48842-ded4-429c-b8e5-fcfd3c6247b0/sist-en-61249-2-8-2003

> Referenčna številka SIST EN 61249-2-8:2003(en)

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### EUROPEAN STANDARD

### EN 61249-2-8

### NORME EUROPÉENNE

### **EUROPÄISCHE NORM**

May 2003

ICS 31.180

**English version** 

Materials for printed boards and other interconnecting structures Part 2-8: Reinforced base materials clad and unclad -Modified brominated epoxide woven fibreglass reinforced laminated sheets of defined flammability (vertical burning test), copper-clad

(IEC 61249-2-8:2003)

Matériaux pour circuits imprimés et autres structures d'interconnexion Partie 2-8: Matériaux de base renforcés. plaqués et non plaqués -Feuilles stratifiées renforcées Kupferkaschierte mit Glasgewebe en tissu de fibres de verre époxyde brome verstärkte Laminattafeln modifié, d'inflammabilité définiet and ards, ite auf der Basis von bromhaltigem (essai de combustion verticale), SIST EN 61249-2-8:200 Brennbarkeit plaquées cuivre

Materialien für Leiterplatten und andere Verbindungsstrukturen Teil 2-8: Kaschierte und unkaschierte verstärkte Basismaterialien modifiziertem Epoxidharz definierter

(CEI 61249-2-8:2003) tandards.iteh.ai/catalog/standards/sist/3dc4Brennprüfungsmit vertikaler Prüflingslage) fcfd3c6247b0/sist-en-61249-2-(HEC)361249-2-8:2003)

This European Standard was approved by CENELEC on 2003-04-01. 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.

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CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, 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 91/359/FDIS, future edition 1 of IEC 61249-2-8, prepared by IEC TC 91, Electronics assembly technology, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61249-2-8 on 2003-04-01.

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) 2004-01-01

 latest date by which the national standards conflicting with the EN have to be withdrawn

(dow) 2006-04-01

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 61249-2-8:2003 was approved by CENELEC as a European Standard without any modification: ards.iteh.ai)

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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>	EN/HD	<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 https://sta	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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# NORME INTERNATIONALE INTERNATIONAL STANDARD

CEI IEC 61249-2-8

> Première édition First edition 2003-02

Matériaux pour circuits imprimés et autres structures d'interconnexion –

### Partie 2-8:

Matériaux de base renforcés, plaqués et non plaqués à Feuilles stratifiées renforcées en tissu de fibres de verre époxyde bromé modifié, d'inflammabilité définie (essai de combustion verticale), plaquées cuivre

https://standards.iteh.ai/catalog/standards/sist/3dc48842-ded4-429c-b8e5-fcfd3c6247b0/sist-en-61249-2-8-2003

Materials for printed boards and other interconnecting structures –

Commission Electrotechnique Internationale

### Part 2-8:

Reinforced base materials clad and unclad – Modified brominated epoxide woven fibreglass reinforced laminated sheets of defined flammability (vertical burning test), copper-clad

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CODE PRIX PRICE CODE

### **CONTENTS**

FO	REWC	)RD	7			
1	Scon	0	11			
	•	cope				
2						
3		rials and construction				
	3.1	Resin system				
	3.2	Reinforcement				
	3.3	Metal foil				
4	Internal marking					
5		rical properties				
6	Non-	electrical properties of the copper-clad laminate	15			
	6.1	Appearance of the copper-clad sheet	.15			
	6.2	Appearance of the unclad face	17			
	6.3	Laminate thickness	17			
	6.4	Bow and twist				
	6.5	Properties related to the copper foil bond	21			
	6.6	Punching and machining	21			
	6.7	Dimensional stability S.T.A.N.D.A.R.D. P.R.E.V.I.E.W.				
	6.8	Sheet sizes Cut panels (Standards.iteh.ai)	23			
	6.9					
7	Non-	electrical properties of the base material after complete removal of the copper foil	25			
	7.1	Appearance of the dielectric base material //3dc48842-dcd4-429c-b8e5	.25			
	7.2	Flexural strength	.27			
	7.3	Flammability	27			
	7.4	Water absorption	29			
	7.5	Measling	29			
	7.6	Glass transition temperature and cure factor				
8	Quali	ty assurance	31			
	8.1	Quality system	31			
	8.2	Responsibility for inspection	31			
	8.3	Qualification inspection	.31			
	8.4	Quality conformance inspection	.31			
	8.5	Certificate of conformance	31			
	8.6	Safety data sheet	31			
9	Pack	aging and marking	33			
10	Orde	ring information	33			
Anr	nex A	(informative) Engineering information	35			
		(informative) Common laminate constructions				
		(informative) Guideline for qualification and conformance inspection				
Bib	liograr	phy	.45			

Table 1 – Electrical properties	13
Table 2 – Nominal thickness and tolerance of metal-clad laminate	19
Table 3 – Bow and twist	19
Table 4 – Pull-off and peel strength	21
Table 5 – Dimensional stability	23
Table 6 – Size tolerance for cut panels	25
Table 7 – Rectangularity of cut panels	25
Table 8 – Flexural strength	27
Table 9 – Flammability	27
Table 10 – Water absorption	29
Table 11 – Measling	29
Table 12 – Glass transition temperature and cure factor	29

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<u>SIST EN 61249-2-8:2003</u> https://standards.iteh.ai/catalog/standards/sist/3dc48842-ded4-429c-b8e5-fcfd3c6247b0/sist-en-61249-2-8-2003

### INTERNATIONAL ELECTROTECHNICAL COMMISSION

## MATERIALS FOR PRINTED BOARDS AND OTHER INTERCONNECTING STRUCTURES –

Part 2-8: Reinforced base materials clad and unclad – Modified brominated epoxide woven fibreglass reinforced laminated sheets of defined flammability (vertical burning test), copper-clad

#### **FOREWORD**

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 61249-2-8 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
91/359/FDIS	91/372/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 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), copperclad
- 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 purning test); heoppered adards/sist/3dc48842-ded4-429c-b8e5-fcfd3c6247b0/sist-en-61249-2-8-2003
- Part 2-19: Epoxide cross-plied 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 sheet of defined flammablity (vertical burning test), copper-clad<sup>1</sup>
- Part 2-23: Non-brominated phenolic, cellulose paper sheet of defined flammability, economic grade, copper clad<sup>1</sup>
- Part 2-26: Non-brominated epoxide, nonwoven/woven glass fabric sheet of defined flammability, copper-clad<sup>1</sup>

The committee has decided that the contents of this publication will remain unchanged until 2004. At this date, the publication will be

- · reconfirmed;
- · withdrawn;
- · replaced by a revised edition, or
- amended.

<sup>&</sup>lt;sup>1</sup> Under consideration.