

SLOVENSKI STANDARD
SIST EN 60249-2-19:1997/A2:1997
01-avgust-1997

**Base materials for printed circuits - Part 2: Specifications - Specification No.19:
Thin bismaleimide/triazine modified epoxide woven glass fabric cooper-clad
laminated sheet of defined flammability for use in the fabrication of multilayer
printed boards - Amendment A2 (IEC 249-2-19:1992/A2:1994)**

Base materials for printed circuits -- Part 2: Specifications -- Specification No. 19: Thin bismaleimide/triazine modified epoxide woven glass fabric copper-clad laminated sheet of defined flammability for use in the fabrication of multilayer printed boards

iTeh STANDARD PREVIEW

Basismaterialien für gedruckte Schaltungen -- Teil 2: Einzelbestimmungen -- Einzelbestimmung Nr. 19: Dünne kupferkaschierte mit Bismaleinimid/Triazin modifizierte Epoxid-Glashartgewebetafeln definierter Brennbarkeit zur Herstellung gedruckter Mehrlagenleiterplatten

<https://standards.itih.ai/catalog/standards/sist/014285e1-20f9-4a5e-b842-36d27189dc30/sist-en-60249-2-19-1997-a2-1997>

Matériaux de base pour circuits imprimés -- Partie 2: Spécifications -- Spécification n° 19: Feuille de stratifié mince en tissu de verre époxyde avec bismaléimide/triazine recouverte de cuivre, d'inflammabilité définie, destinée à la fabrication de cartes imprimées multicouches

Ta slovenski standard je istoveten z: EN 60249-2-19:1993/A2:1995

ICS:

13.220.40	Sposobnost vžiga in obnašanje materialov in proizvodov pri gorenju	Ignitability and burning behaviour of materials and products
31.180	Tiskana vezja (TIV) in tiskane plošče	Printed circuits and boards

SIST EN 60249-2-19:1997/A2:1997 **en**

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EUROPEAN STANDARD
 NORME EUROPÉENNE
 EUROPÄISCHE NORM

EN 60249-2-19/A2

November 1995

UDC 621.3.049.75:678.686-419:620.1
 ICS 31.180

Descriptors: Printed circuits, base materials, laminated sheet, woven glass fabric, bismaleimide/triazine, multilayer

English version

**Base materials for printed circuits
 Part 2: Specifications
 Specification No. 19: Thin bismaleimide/triazine modified epoxide
 woven glass fabric copper-clad laminated sheet of defined flammability
 for use in the fabrication of multilayer printed boards
 (IEC 249-2-19:1992/A2:1994)**

Matériaux de base pour circuits
 imprimés

Partie 2: Spécifications
 Spécification n° 19: Feuille de stratifié
 mince en tissu de verre époxyde avec
 bismaléimide/triazine recouverte de
 cuivre, d'inflammabilité définie, destinée
 à la fabrication de cartes imprimées
 multicouches
 (CEI 249-2-19:1992/A2:1994)

Basismaterialien für gedruckte
 Schaltungen

Teil 2: Einzelbestimmungen
 Einzelbestimmung Nr. 19: Dünne
 kupferkaschierte mit
 Bismaleinimid/Triazin modifizierte
 Epoxid-Glashartgewebetafeln definierter
 Brennbarkeit zur Herstellung gedruckter
 Mehrlagenleiterplatten
 (IEC 249-2-19:1992/A2:1994)

This amendment A2 modifies the European Standard EN 60249-2-19:1993; it was approved by CENELEC on 1995-09-20. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 amendment 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, 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 amendment 2:1994 to the International Standard IEC 249-2-19:1992, prepared by IEC TC 52, Printed circuits, was submitted to the formal vote and was approved by CENELEC as amendment A2 to EN 60249-2-19:1993 on 1995-09-20 without any modification.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1996-09-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 1996-09-01

Endorsement notice

The text of amendment 2:1994 to the International Standard IEC 249-2-19:1992 was approved by CENELEC as an amendment to the European Standard without any modification.

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NORME
INTERNATIONALE
INTERNATIONAL
STANDARD

CEI
IEC

249-2-16 à/to 19

1992

AMENDEMENT 2
AMENDMENT 2

1994-05

Amendement 2

Matériaux de base pour circuits imprimés

Deuxième partie:

Spécifications. Specifications n^{os} 16 à 19

(standards.iteh.ai)

Amendment 2

<https://standards.iteh.ai/catalog/standards/sist/014285e1-20f9-4a5e-b842-36d270997099/sist-en-60249-2-19:1997/a2:1997>

Base materials for printed circuits

Part 2:

Specifications. Specifications Nos. 16 to 19

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE

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For price, see current catalogue

FOREWORD

This amendment has been prepared by IEC technical committee 52: Printed circuits.

The text of this amendment is based on the following documents:

DIS	Report on voting
52(CO)396	52(CO)397

Full information on the voting for the approval of this amendment can be found in the report on voting indicated in the above table.

This amendment is applicable to the standards listed in the table below (first column). The relevant amendment number to each standard which this amendment modifies is also given in the table (second column).

IEC standard No.	Amendment No.
249-2-1	3
249-2-2	4
249-2-3	3
249-2-4	4
249-2-5	4
249-2-6	3
249-2-7	3
249-2-9	4
249-2-10	4
249-2-11	3
249-2-12	3
249-2-14	4
249-2-16	2
249-2-17	2
249-2-18	2
249-2-19	2

In publications IEC 249-2-16, IEC 249-2-17, IEC 249-2-18 and IEC 249-2-19, replace the existing subclause 6.8 "Size tolerances" and subclause 6.9 "Rectangularity of cut panels" by the following:

6.8 Sheet sizes

6.8.1 Typical sheet sizes

Typical sheet size are:

- 1 060 mm × 1 150 mm
- 915 mm × 1 220 mm
- 1 000 mm × 1 000 mm
- 1 000 mm × 1 200 mm.

Apart from these typical sheet sizes, fractions of the sizes and other sizes, for example larger, are available on the market.

6.8.2 Tolerances for sheet sizes

The size of the sheets delivered by the supplier shall not deviate more than $+20_0$ mm from the ordered size.

6.9 Cut panels

6.9.1 Cut panel sizes

Cut panel sizes shall be, when delivered, in accordance with the purchaser's specification.

6.9.2 Size tolerances for cut panels

For panels cut to size according to the purchaser's specification, the following tolerances for length and width shall apply:

Panel size (mm)	Tolerance \pm (mm)	
	Normal	Close
Up to 300		0,5
Over 300 to 600	2	0,8
Over 600		1,6
NOTE - The specified tolerances include all deviations caused by cutting the panels.		

6.9.3 Rectangularity of cut panels

Property	Test method (subclause of IEC 249-1)	Requirements	
		Coarse (mm/m)	Normal (mm/m)
Rectangularity of cut panels	3.15	3	2