Specification for coatings for loaded printed wire boards (conformal coatings) - Part 1: Definitions, classification and general requirements



#### **FESTI STANDARDI FESSÕNA**

#### **NATIONAL FOREWORD**

Käesolev Eesti standard EVS-EN 61086-1:2002 sisaldab Euroopa standardi EN 61086-1:1994 ingliskeelset teksti.

This Estonian standard EVS-EN 61086-1:2002 consists of the English text of the European standard EN 61086-1:1994.

Standard on kinnitatud Eesti Standardikeskuse 18.12.2002 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

This standard is ratified with the order of Estonian Centre for Standardisation dated 18.12.2002 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on .

Date of Availability of the European standard text

Standard on kättesaadav Eesti standardiorganisatsioonist.

The standard is available from Estonian standardisation organisation.

ICS 01.040.29, 29.040.20

Inglisekeelsed võtmesõnad: classification, coatings, electric wiring systems, electrical insulation, marking, printed- circuit boards, printed circuits, printed-circuit bases, printed-circuit cards, specification (approval), specifications,

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### EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 61086-1

August 1994

ICS 29.040.20;01.040.29

Descriptors: Printed-circuit cards, printed-circuit boards, wiring, coatings, electrical insulating materials, definitions, classification, specifications, marking

#### **English version**

# Specification for coatings for loaded printed wire boards (conformal coatings)

Part 1: Definitions, classification and general requirements

(IEC 1086-1: 1992)

Spécification pour les revêtements appliqués sur les cartes de câblage imprimées et dotées de composants conventionnels (revêtements enrobants)

Partie 1: Définitions, classification et

prescriptions générales (CEI 1086-1: 1992)

Bestimmung für beschichtungen für bestückte Leiterplatten (conformal coatings)

Teil 1: Begriffe, Einteilung und allgemeine Anforderungen

(IEC 1086-1: 1992)

This European Standard was approved by CENELEC on 1994-05-15. 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, 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

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#### **Foreword**

The CENELEC questionnaire procedure, performed for finding out whether or not the International Standard IEC 1086-1: 1992 could be accepted without textual changes, has shown that no common modifications were necessary for the acceptance as a European Standard.

The reference document was submitted to CENELEC members for formal vote and was approved by CENELEC as EN 61086-1 on 15 May 1994.

The following dates were fixed:

 latest date of publication of an identical national standard

(dop) 1995-03-15

latest date of withdrawal of conflicting national standards

(dow) 1995-03-15

ORAGO ORAGO DE LEILO Annexes designated 'normative' are part of the body of the standard. In this standard, annex ZA is normative.

EN 61086-1: 1994

#### INTRODUCTION

This International Standard forms an element of a series which deals with coatings for loaded printed wire boards (conformal coatings).

The series consists of three parts:

Part 1: Definitions, classification and general requirements (IEC 1086-1).

Part 2: Methods of test (IEC 1086-2).

Specifications for individual materials (IEC 1086-3). Part 3: Sa Oralian Sanatala Series Ser

## SPECIFICATION FOR COATINGS FOR LOADED PRINTED WIRE BOARDS (CONFORMAL COATINGS)

#### Part 1: Definitions, classification and general requirements

#### 1 Scope

This International Standard gives the definition, classification and general requirements for electrical insulating materials suitable for application as coatings for loaded printed wire boards (conformal coatings).

The specification excludes requirements for compatibility between such coatings and printed wire boards. This characteristic shall be evaluated for individual applications.

#### 2 Normative reference

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were current. All normative documents are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards. However, in the event of dispute the referenced edition shall be used.

IEC 68-1: 1988, Environmental testing, Part 1: General and guidance.

IEC 1086-2: 1992, Specifications for coatings for loaded printed wire boards - Part 2: Methods of test.

IEC 1086-3: XXXX, Specifications for coatings for loaded printed wire boards - Part 3: Specifications for individual materials. (Under consideration).

#### 3 Definition

conformal coating: An electrical insulating material applied as a coating to loaded printed wire boards to produce a thin layer conforming to the surface in order to provide a protective barrier against deleterious effects from environmental conditions.