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Materials for printed boards and other interconnecting structures – Part 2-45: Reinforced base materials clad and unclad – Non-halogenated epoxide non-woven/woven E-glass reinforced laminate sheets of thermal conductivity 1,0 W/(m•K) and defined flammability (vertical burning test), copper-clad for lead-free assembly

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CONTENTS

FOREWORD 4
1 Scope 6
2 Normative references 6
3 Terms and definitions 6
4 Materials and construction 7
4.1 General 7
4.2 Resin system 7
4.3 Metal foil 7
4.4 Reinforcement 7
5 Electrical properties 7
6 Non-electrical properties of the copper-clad laminate 8
6.1 Appearance of the copper-clad sheet 8
6.1.1 General 8
6.1.2 Indentations (pits and dents) 8
6.1.3 Wrinkles 8
6.1.4 Scratches 8
6.1.5 Raised areas 9
6.2 Appearance of the unclad face 9
6.3 Laminate thickness 9
6.4 Bow and twist 9
6.5 Properties related to the copper foil bond 10
6.6 Punching and machining 11
6.7 Dimensional stability 11
6.8 Sheet sizes 11
6.8.1 Typical sheet sizes 11
6.8.2 Tolerances for sheet sizes 11
6.9 Cut panels 12
6.9.1 Cut panel sizes 12
6.9.2 Size tolerances for cut panels 12
6.9.3 Rectangularity of cut panels 12
6.10 Thermal conductivity 12
7 Non-electrical properties of the base material after complete removal of the copper foil 13
7.1 Appearance of the dielectric base material 13
7.2 Flexural strength 13
7.3 Flammability 13
7.4 Water absorption 14
7.5 Measling 14
7.6 Glass transition temperature and cure factor 14
7.7 Decomposition temperature 15
7.8 Time to delamination (TMA) 15
7.9 Halogen content 15
8 Quality assurance 15
8.1 Quality system 15
8.2 Responsibility for inspection 16
8.3 Qualification inspection 16
8.4 Quality conformance inspection 16

8.5 Certificate of conformance 16
8.6 Safety data sheet 16
9 Packaging and marking 16
10 Ordering information 17
Annex A (informative) Engineering information 18
A.1 General 18
A.2 Chemical properties 18
A.3 Electrical properties 18
A.4 Flammability properties 18
A.5 Mechanical properties 18
A.6 Physical properties 18
A.7 Thermal properties 19
Annex B (informative) Common laminate constructions 20
Annex C (informative) Guideline for qualification and conformance inspection 21
Bibliography 22

Table 1 – Electrical properties 7
Table 2 – Size of indentations 8
Table 3 – Nominal thickness and tolerance of metal-clad laminate 9
Table 4 – Bow and twist requirements 10
Table 5 – Pull-off and peel strength requirements 10
Table 6 – Dimensional stability 11
Table 7 – Size tolerances for cut panels 12
Table 8 – Rectangularity of cut panels 12
Table 9 – Thermal conductivity 12
Table 10 – Flexural strength requirements 13
Table 11 – Flammability requirements 14
Table 12 – Water absorption requirements 14
Table 13 – Measling requirements 14
Table 14 – Glass transition temperature and cure factor requirements 15
Table 15 – Decomposition temperature requirements 15
Table 16 – Time to delamination requirements 15
Table 17 – Halogen content 15
Table C.1 – Qualification and conformance inspection 21

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International Standard IEC 61249-2-45 has been prepared by IEC technical committee 91: Electronics assembly technology.

The text of this International Standard is based on the following documents:

CDV	Report on voting
91/1447/CDV	91/1483/RVC

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

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of the IEC 61249 series, under the general title *Materials for printed boards and other interconnecting structures*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific document. At this date, the document will be

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

A bilingual version of this publication may be issued at a later date.

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1 Scope

This part of IEC 61249 gives requirements for properties of non-halogenated epoxide non-woven reinforced core/woven E-glass reinforced surface laminate sheets of thermal conductivity and defined flammability (vertical burning test), copper-clad for lead-free assembly in thicknesses of 0,60 mm up to 1,70 mm. The flammability rating is achieved through the use of non-halogenated fire retardants reacted as part of the epoxide polymeric structure. The glass transition temperature is defined to be 105 °C minimum. Thermal conductivity is defined to be (1,0 ± 0,15) W/(m•K).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 61189-2:2006, *Test methods for electrical materials, printed boards and other interconnection structures and assemblies – Part 2: Test methods for materials for interconnection structures*

IEC 61249-5-1, *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)*

IEC/PAS 61249-6-3, *Specification for finished fabric woven from "E" glass for printed boards*

ISO 11014, *Safety data sheet for chemical products – Content and order of sections*