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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

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Epoxide woven E-glass prepreg for multilayer printed boards

多层印制板用环氧E玻纤布粘结片

(English Translation)

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting is required.

This document is modified to adopt IEC 61249-4-1:2008 "Materials for printed boards and other interconnect structures Part 4-1. Prepreg without copper cladding Material Specification for Limited Flammability Epoxy E-Glass Cloth Adhesive Sheets for Multilayer Printed Circuit Boards.

Compared with IEC 61249-4-1:2008, this document has more structural adjustments. The structural number comparison table between the two documents is as follows.

See Appendix A.

This document has many technical differences compared to IEC 61249-4-1:2008.

A single vertical line (|) indicates these differences. A summary of these technical differences and their reasons is given in Appendix B.

The following editorial changes were made to this document.

-- Move the suspension sections in Chapter 3 and Chapter 5 of IEC 61249-4-1:2008 to 4.1 and 6.1 of this document respectively;

--Deleted the statements with incorrect logic in Chapter 1 and reformulated them;

--Change the title of Chapter 6 from "Delivery Status" to "Dimensions" to make the title more relevant to the content;

--Since IEC 61249-4-1:2008, 4.2.4, references IEC 61189-2, method 2M26, which has no corresponding domestic standard, for ease of use, the referenced IEC 61189-2 Method 2M26 content is converted into Appendix D (normative) Proportional Flow Thickness test method;

--Since IEC 61249-4-1:2008, 4.2.5, references IEC 61189-2, method 2C09, which has no corresponding domestic standard, for ease of use, the referenced IEC 61189-2 method 2C09 content is converted into Appendix E (normative) melt viscosity Test method.

1 Scope

This document specifies the materials and structure, performance requirements, dimensions and specifications of E glass fiber cloth reinforced bifunctional epoxy adhesive sheet (hereinafter referred to as "adhesive sheet").

size, quality assurance, packaging and labeling, storage period, and order information.

This document applies to laminates of type IEC 61249-2-7 used for bonding when manufacturing IEC 62326-4 multilayer printed boards.

Used for bonding multi-layer printed circuit boards.

This document defines the flammability of adhesive sheets (vertical burning test), the flame retardant effect of which is achieved by polymeric bromine-containing flame retardants.

The glass transition temperature after lamination is not less than 120 °C.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date

applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to this document.

GB/T 2036 Terminology for printed circuits GB/T 4722-2017 Test methods for rigid copper-clad laminates for printed circuits GB/T 16483 Contents and item sequence of chemical safety data sheets GB/T 19000 Quality Management System Fundamentals and Vocabulary (GB/T 19000-2016, ISO 9000:2015, IDT) GB/T 24001 Environmental Management System Requirements and Usage Guide (GB/T 24001-2016, ISO 14001:2015, IDT) GB/T 33015-2016 General rules for adhesive sheets for multilayer printed boards GB/T 33016-2016 Test method for bonding sheets for multilayer printed boards IEC 61249-6-3 Materials for printed boards and other interconnect structures Part 6-3. Sectional specification for reinforcement materials Specification for E-glass fabric for printed boards (Materials for printed boards and other interconnecting structures-Part 6-3. Sectional specification set for re-inforcement materials-Specification for finished fabric woven from "E" glass for printed boards)

3 Terms and definitions

The terms and definitions defined in GB/T 2036 apply to this document.

4.1 Structure

The bonding sheet is composed of E-glass cloth impregnated with epoxy resin, semi-cured to B stage.

4.2 Reinforcement materials

The reinforcement material is E glass fiber cloth that complies with IEC 61249-6-3.