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

GB/T 1303.11-2009

**Industrial rigid laminated sheets based on thermosetting resins
for electrical purposes -- Part 11: Requirements for rigid
laminated sheets based on polyamide-imide resins**

电气用热固性树脂工业硬质层压板 第11部分：聚酰胺酰亚胺树脂硬质层压板

(English Translation)

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Foreword

GB/T 1303 "thermosetting resins for electrical industrial rigid laminated board", is divided into the following sections.

- Part 1. Definitions, designations and general requirements;
- Part 2. Test methods;
- Part 3. Industrial rigid laminated board model;
- Part 4. rigid epoxy laminates;
- Part 5. rigid melamine resin laminate;
- Part 6. rigid phenolic resin laminate;
- Part 7. Polyester resin rigid laminates;
- Part 8. rigid silicone resin laminate;
- Part 9. rigid polyimide resin laminate;
- Part 10. bismaleimide rigid laminates;
- Part 11. Polyamide-imide resin rigid laminates;

This section GB/T 1303 Part 11.

The partial modification of the use of IEC 60893-3-7:2003 "thermosetting resins for electrical industrial rigid laminated sheets - Part 3. Specifications for individual materials Regulation Fan Section 7. polyimide resin laminate rigid requirements "(in English) of the relevant content.

For ease of use of IEC 60893-3-7:2003 carried the following editorial and technical corrections.

a) Remove the IEC 60893-3-7:2003 "Preface" and "Introduction", the introduction of this part of the content into "foreword" in;

b) of Chapter 1, "program" has been modified, deleted the material meets note, increasing the scope of application;

c) delete the dimension in Chapter 3 of labeling information;

d) according to the actual needs of the country, supplemented with "apparent flexural modulus of elasticity," "vertical layer to the compression strength," "parallel layer to the shear strength Degree "," tensile strength "," adhesive strength "," 1MHz lower dielectric loss factor "," 1MHz dielectric constant "," resistance to tracking Index "," Temperature Index "and" density "of performance requirements related to technical differences in the terms they are involved in the margin A single vertical line identification.

e) The "Requirements" chapter of the press, "look", "size" and "flatness", "performance requirements," points written in the "supply requirements" as a separate chapter Write, while IEC 60893-3-7:2003 in Table 5 were modified, the contents of the memo included in this section of Table 6. Table Note; the IEC 60893-3-7:2003 Table 5 - Test methods included in this section reg Chapter 5, "test" rewrite and adds Test methods and cut slats General;

f) Remove the IEC 60893-3-7:2003 references.

This part is proposed by the China Electrical Equipment Industrial Association.

This part of the National Standardization Technical Committee of the insulating material (SAC/TC51) centralized.

This part mainly drafted by. East Sichuan Material Technology Group Co., Ltd., Beijing Fu Runda new insulation material limited liability company, State Drafters of this section. Liu Feng, Liu Qihuan, Zhao Ping, Luo Zhuanyong.

This section first formulated.

Thermosetting resins for electrical industrial rigid laminated sheets Part 11.

Polyamide-imide resin Rigid laminated sheets

1 Scope

GB/T 1303 provisions of this part of the electrical polyamide-imide resin and reinforcing material for the different groups of industrial rigid laminated board Name, requirements, test methods and delivery requirements.

This section applies to the polyamide-imide resin hard glass cloth as a base material, polyamide-imide resin binder formed by hot pressing Quality laminate. Their uses and characteristics are shown in Table 1.

2 Normative references

The following documents contain provisions which, through GB/T reference in this 1303 constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 1303.1-2009 thermosetting resins for electrical industrial rigid laminated sheets - Part 1. Definitions, designations and general requirements (IEC 60893-1:2004, IDT) GB/T 1303.2-2009 Electrical thermosetting resins - Part 2 - Industrial rigid laminated sheets. Methods of test (IEC 60893-2.

2003, MOD)

3 Name

This section relates to the laminate according to the resin used and reinforced materials and different characteristics plate is divided into various models. The various layers Name plate made up as follows.

- Number of national standards;
- Behalf of resin-letter abbreviation;
- Representative Reinforcements second two-letter abbreviation;
- Serial Number.

Name Example. PAIGC301 industrial rigid laminated sheets, the name is. GB/T 1303.11-PAIGC301 the following abbreviations are used in this specification.

Reinforced resin type material type PAI polyamide-imide GC (textile) glass cloth

Table 1 Type of laminate.

Table 1 Industrial rigid polyamide-imide resin laminate models

Uses and characteristics of a model PAIGC301 mechanical and electrical use. Mechanical and electrical properties at high temperatures better should not be deduced from a table 1. This does not apply to certain types of laminates used for purposes not listed, or a particular laminate is suitable for the wide range the various uses.