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

GB/T 1303.7-2009

**Industrial rigid laminated sheets based on thermosetting resins
for electrical purposes -- Part 7: Requirements for rigid
laminated sheets based on polyester resins**

电气用热固性树脂工业硬质层压板 第7部分：聚酯树脂硬质层压板

(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 part of GB/T 1303 Part 7.

This section identical with IEC 60893-3-5:2003 (2nd edition) "thermosetting resins for electrical industrial rigid laminated sheets - Part 3. Single Item Specifications 5 material. polyester resin laminate rigid requirements "(in English).

For ease of use of IEC 60893-3-5:2003 carried the following editorial changes.

- a) Remove the IEC 60893-3-5:2003 "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) the "Requirements" chapter of the press, "look", "size" and "flatness", "performance requirements," points written in the "supply requirements" as a separate Chapter prepared, while IEC 60893-3-5:2003 in Table 5 were modified, the contents of the memo included in the Notes to Table; Table 5 Test Methods reg included in Chapter 5, "test" rewrite and adds cutting slats and test methods - General;

e) Remove the IEC 60893-3-5:2003 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. Beijing Fu Runda new insulation materials Co., Ltd., Sichuan Material Technology Group Co., East, West Anxi Power Electrical Engineering Materials Co., Ltd., National Engineering Research Center of insulating material, Guilin Institute of Electrical Science.

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This section first formulated.

GB/T 1303.7-2009/IEC 60893-3-5:2003 Thermosetting resins for electrical industrial rigid laminated sheets Part 7. Polyester resin rigid laminated sheets

1 Scope

GB/T 1303 provisions of this part of the polyester resin as the binder rigid laminate classification and nomenclature, requirements, test methods and Supply requirements.

This section applies to the glass mat for the substrate to a polyester resin binder formed by hot pressing a hard polyester resin laminate.

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)

3.1 Naming

By resin and reinforcing material and sheet properties are named.

Example.

unsaturated polyester resin GM glass mat reinforcement feature series

3.2 Classification

Laminate type in Table 1.

Table 1 of unsaturated polyester resins for industrial rigid laminated board Model

Laminate Model

Resin reinforcing material series Uses and properties a UP GM 201 mechanical and electrical use. High humidity good electrical properties, good mechanical properties at medium temperature 202 mechanical and electrical use. Similar UPGM201, but flame retardant 203 mechanical and electrical use. Similar UPGM202, but increase the arc resistance and resistance to tracking 204 mechanical and electrical use. Good mechanical properties at room temperature, good mechanical properties at high temperatures 205 with mechanical and electrical properties. UPGM204 similar type, but flame retardant

Table 1 should not be based on a draw. a specific type of laminate certainly does not apply to use is not listed, or specific laminate necessarily apply to

The various uses within a wide range.

GB/T 1303.7-2009/IEC 60893-3-5:2003