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

GB/T 1303.3-2008

**Industrial rigid laminated sheets based on thermosetting resins
for electrical purposes -- Part 3: Requirements for types of
industrial rigid laminated sheets**

电气用热固性树脂工业硬质层压板 第3部分：工业硬质层压板型号

(English Translation)

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Foreword

GB/T 1303 "thermosetting resins for electrical industrial rigid laminated plate" 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. Bismaleamic rigid resin laminate;
- Part 11. rigid polyamide-imide resin laminate;

This section GB/T 1303 Part 3.

The partial modification of the use of IEC 60893-3-1:2003 "thermosetting resins for electrical industrial rigid laminated sheets - Part 3. Specifications for individual materials Regulation Fan Section 1. industrial rigid laminated plate model requirements "(2nd edition, in English).

This part of IEC 60893-3-1:2003 compared to the main differences are.

- On the Format delete its "reference";
- Added a technically Bismaleamic (BMI), polyamide imide (PAI), the abbreviation poly ether (DPO) and the corresponding resin Laminates Use and characteristics;

--- Delete provisions in Table 1 and the middle platen about the coarse and fine cloth textile reinforcement specifications comment.

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.

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This section first release.

Thermosetting resins for electrical industrial rigid laminated sheets Part 3. Industrial rigid laminated board Model

1 Scope

GB/T 1303 provisions of this part of the guide thermosetting resins for electrical industrial rigid laminated sheets required. The variety of laminates can provisions in subsequent sections.

This section applies to thermosetting resins for electrical industrial rigid laminated board.

2 Acronym

Reinforced resin type material type EP epoxy CC (Textiles) cotton MF Melamine CP cellulose paper PF phenolic GC (textile) glass cloth UP Unsaturated polyester glass mat GM SI Silicone PC-woven polyester fabric PI polyimide WV wood veneer BMI Bismaleamic CR combination of reinforced material PAI polyamide-imide DPO poly ether

NOTE: The name of the CR (a combination of reinforcing material) containing one or more reinforcing material for laminates. The actual composition specified in the relevant product standard.

3 Models

Table 1 Type of laminate.

Table 1 laminate models

Laminate Model

A resin reinforcement material series Applications and Features b EP CC CP GC 301 mechanical and electrical use. Resistance to tracking, abrasion resistance, good chemical

resistance.

201 electrical use. Electrical properties under high humidity, good stability, low flammability.

201 mechanical, electrical and electronic use. Temperature under high mechanical strength, good electrical properties at high temperature stability.

202 similar EPGC201 type. Low flammability.

203 similar EPGC201 type. High mechanical strength at high temperatures.

204 similar EPGC203 type. Low flammability.

205 EPGC203 similar type, but with coarse cloth.

306 EPGC203 similar type, but to improve the tracking of the index.

307 EPGC205 similar type, but to improve the tracking of the index.

308 EPGC203 similar type, but to improve the heat resistance.