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

GB/T 1303.10-2009

**Industrial rigid laminated sheets based on thermosetting resins
for electrical purposes -- Part 10: Requirements for rigid
laminated sheets based on bis-maleimide resins**

电气用热固性树脂工业硬质层压板 第10部分：双马来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 10.

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.

This part of IEC 60893-3-7:2003 differences are as follows.

- a) Remove the IEC 60893-3-7:2003 preface and introduction, the introduction content into this part of the preamble;
- 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 situation needs, supplemented with "apparent flexural modulus of elasticity," "vertical layer to the compression strength", "parallel to the shear layer Strength", "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's "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 section is drafted. Xian Xi, electrical materials Co., Ltd., Beijing Fu Runda new insulation material limited liability company, Guilin electricity Institute is science.

Drafters of this section. Duchao Yun, Liu Qihuan, Luozhuan Yong.

This section first formulated.

Thermosetting resins for electrical industrial rigid laminated sheets Part 10. bismaleimide rigid laminated sheets

1 Scope

GB/T 1303 provisions of this part of the classification bismaleimide rigid laminate, name, requirements, test methods and Availability Claim.

This section applies to glass cloth as a base material for bismaleimide an adhesive resin formed by hot pressing hard bismaleimide 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, classification 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.

2002, MOD)

GB/T 1303.3-2008 thermosetting resins for electrical industrial rigid laminated sheets - Part 3. Industrial rigid laminated board Model (IEC 60893-3-1:2002, MOD)

3.1 Naming

According to GB/T 1303.3-2008 provisions to the resin and reinforcing material and sheet properties are named.

Example.

BMI

bismaleimide resin

glass cloth reinforcement feature series

3.2 Classification

Table 1 bismaleimide resin laminate industrial rigid model

Model uses and properties BMIGC301 mechanical and electrical use. Good mechanical and electrical properties at high temperatures.

4.1 Appearance

Visual inspection.

4.2 Dimensions

4.2.1

laminate boards allow original width and length deviation should meet the requirements of

Table 2.