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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

LY/T 1278-2011

Replacing LY/T 1278-1998

Laminated wodd for electrical purposes

电工层压木板

(English Translation)

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Preview: page 1 of 4 shown, 7 in the full document. Complete English PDF, instant download:
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Table of Contents

Foreword
1 Scope
2 Normative references
3 Terms and definitions
4 Requirements
4.1 Raw materials
4.2 Product Structure

Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces LY/T 1278-1998 "Electrical laminated wood board".

This standard is a revision of LY/T 1278-1998 "Electrified laminated wood board", compared with LY/T 1278-1998, the main technical changes as follows.

---Modify "low dielectric loss electrical laminate board" as "electrical laminate board" (see Chapter 1);

--- Added the terms and definitions of "electrical laminate board" and "compared to the tracking index" (see Chapter 3);

--- Revised the requirements for "raw materials" (see 4.1);

---Modify "product organization structure" to "product structure" and adjust its content (see 4.2);

---Adjust "Specification size" and "deviation" to "thickness and its allowable deviation" and "length and width and its allowable deviation", and do the value a new definition (see 4.3 and 4.4);

--- Revised the "flatness of the board" indicator and test methods (see 4.5 and 5.3);

--- Modify "appearance quality of the product" to "appearance quality", increasing the requirements for pits, stains, conductive impurities, etc. (see 4.6);

--- Added the classification of density in the "Performance Requirements" section, removed the "limit thickness expansion ratio after oil immersion, compatibility with transformer oil, electricity Index of creeping electrical strength and relative dielectric constant in gas strength; increased "compressibility, layer shear strength, compared to electrical trace

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https://chinastandards.org/standards/ly-t-1278-2011

Index, pollution of liquid dielectric, parallel layer breakdown voltage" indicator, and additional modification of the indicator value (see 4.8);

--- Modify the "parallel layer direction" in "compressive strength" to "parallel layer" and "vertical layer direction" to "vertical layer" (see 4.8);

--- Adjust and supplement the content of the "test method" (see Chapter 5);

--- Editing additions and adjustments to "inspection rules" and "packaging, marking, transportation and storage" (see Chapters 6 and 7).

This standard is proposed and managed by the National Standardization Technical Committee for Wood-based Panels (SAC/TC198).

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1 Scope

This standard specifies the terms and definitions, requirements, test methods, inspection rules, marking, packaging, transportation and storage of electrical laminated wood.

This standard is applicable to electrician laminated wood boards which are made by rolling and veneering such as birch and then laminated and hot pressed.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 1041-2008 Determination of compression properties of plastics Thermal insulating resins for electrical applications - Part 2. Test methods GB/T 1410 solid insulating material volume resistivity and surface resistivity test method GB/T 4207 Determination of the electrical tracking index and the tracking resistance index of solid insulating materials under humid conditions GB/T 9341-2008 Determination of bending properties of plastics GB/T 18259 wood-based panel and its surface decoration terminology GB/T 20634.2-2008 Non-impregnated dense laminated wood for electrical purposes - Part 2. Test methods

Preview: page 3 of 4 shown, 7 in the full document. Complete English PDF, instant download:
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3 Terms and definitions

The following terms and definitions as defined in GB/T 18259 apply to this document.

Electrician laminated wood boardedwoodforelectricalpurposes After the veneer and other veneer are coated with rubber, the plate is formed by laminating hot pressing.

Compared to the electrical tracking index, comparabletrackingindex; CTI the maximum voltage value in volts of the material being subjected to 50 drops of electrolyte without electrical tracking.

4.1 Raw materials

Wood. Wood such as birch that is non-polluting to transformer oil.

Adhesive. phenolic resin.

4.2 Product Structure

4.2.1

The product consists of a single board. The fibers of the same layer are in the same direction, and the layers can be stacked at an angle, and each layer is allowed.

Stitching.

4.2.2

In the length of 100mm section, the thickness of the product shall be less than 30mm, and the overlap shall not exceed 2, and the thickness of the product shall be 30mm or more.

Add 10mm thick and add 1 lap analogy.

Preview: page 4 of 4 shown, 7 in the full document. Complete English PDF, instant download:
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