

ICS 29.035.10
CCS K 15



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

GB/T 20629.2-2013

**on-cellulosic paper for electrical purposes -- Part 2: Methods of
test**

电气用非纤维素纸 第2部分：试验方法

(English Translation)

Issued on: January 1, 1970

Implemented on: January 1, 1970

Issued by: Standardization Administration of China

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Foreword

GB/T 20629 "electrically non-cellulose paper" contains the following sections.

- Part 1. Definitions, designations and general requirements;
- Part 2. Test methods;
- Part 3. Specifications for individual materials.

This is Part 2 GB/T 60629 of.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section uses redrafted law revision using IEC 60819-2:2001 "Non-cellulosic papers for electrical purposes - Part 2. Test methods." Technical differences exist compared to 2001 are as follows. IEC 60819-2 and this part.

- Remove the IEC 60819-2:2001 Foreword;
- Remove the IEC 60819-2:2001 Chapter 3, the definition of the sample and the sample;
- Press mechanical properties, electrical properties, physical and chemical properties on the order of the chapters have been adjusted and editorial changes;
- Increased test methods "volume resistivity" "surface resistivity" "Temperature Index", "thermal conductivity" and "oxygen index" five properties, According to this and the corresponding increase in the normative references. At the same time easy to write, an increase of GB/T 5591.2-2002 "electricity Gas flexible composite material - Part 2. Test methods" and GB/T 20628.2-2006" electric with Part 2 of cellulose paper Min. Test methods "Two normative references.
- Increase the informative Appendix A.

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. Guilin Electric Apparatus Research Institute, Yantai, China Roth Special Paper Co., Ltd., SRO Group (China) Limited the company, the Shenzhen Composite Materials Co., Ltd. Haotian Longbang.

1 Scope

This section GB/T 20629 specifies the test methods for electrical non-cellulose paper.

Note: GB/T 20629.1-2006 electrically non-cellulosic sheet comprising. polyaramide paper, paper polyethylene, polypropylene, paper, paper or polyethylene terephthalate Glassine paper and organic synthetic fiber, inorganic fiber paper of ceramic paper and synthetic organic and inorganic fiber mixed paper, but does not include mica paper.

This section applies to a non-cellulosic papers for electrical purposes.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 451.2-2002 paper and cardboard quantitative determination (eqv ISO 536:1995)
GB/T 451.3-2002 Paper and board Determination of thickness (ISO 534. 1988, IDT) GB/T 1408.1-2006 electrical insulating materials strength test methods - Part 1. Tests at power frequencies (IEC 60243-1:1998, IDT) GB/T 1409-2006 Measurement of electrical insulating materials at power, audio, high-frequency (including meter wavelengths included) relative permittivity and dielectric Dissipation factor test methods (IEC 60250. 1969, IDT) GB/T 1410-2006 solid insulating material volume resistivity and surface resistivity test methods (IEC 60093. 1980, IDT) GB/T 2406.2-2009 Plastics - Determination of burning behavior by oxygen index - Part 2 Method. room temperature test (ISO 4589-2:1996, IDT) Test Method. GB/T 5591.2-2002 electrical insulation Part 2 flexible materials (IEC 60626-2:1995, MOD) GB/T 11026.1-2003 Electrical insulating materials - Thermal resistance - Part 1. Ageing procedures and evaluation of test results (IEC 60216-1:2001, IDT) GB/T 11026.2-2012 heat resistance, electrical insulating materials - Part 2. Test selection criteria (IEC 60216-2. 2005, IDT)

GB/T 12914-2008 Paper and board - Determination of tensile strength (ISO 1924-1:1992 and ISO 1924-2:1994, MOD) GB/T 20628.2-2006 cellulosic papers for electrical purposes - Part 2. Test methods (IEC 60554-2:2001, MOD) GB/T 20629.1-2006 Non-cellulosic papers for electrical purposes - Part 1. Definitions and general requirements (IEC 60819-1:1995, IDT) Performance test method GB/T 29313-2012 thermally conductive electrically insulating material

3.1 Normalization process

Unless otherwise specified, the sample should be at a temperature of $23\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$, relative humidity $(50 \pm 5)\%$ under ambient conditions of processing at least 16h.