

ICS 29.035.01

CCS K 15



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

**GB/T 30546-2014**

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**Suitability of typical electrical insulating material (EIM) for  
polymer recycling**

典型电气绝缘材料（EIM）对聚合物回收的适用性

**(English Translation)**

**Issued on: May 6, 2014**

**Implemented on: October 28, 2014**

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**Issued by: Standardization Administration of China**

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### Foreword

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

This standard uses the translation method is equivalent to using IEC/T R62392.2006

"typical electrical insulating material (EIM) for polymer recovery application Sex. "

Correspondence between the consistency of the standards of international documents and normative references of the following documents.

--- GB/T 1410-2006 solid insulating material volume resistivity and surface resistivity test methods (IEC 60093. 1980, IDT)

--- GB/T 2035-2008 Plastics terms and definitions (ISO 472:1999, IDT)

--- GB/T 4207-2003 solid insulating materials under moist conditions index tracking of the measuring method and the proof tracking index compared (IEC 60112. 1979, IDT)

--- 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 11026.3-2006 heat resistance, electrical insulating materials - Part 3. Calculation procedure thermal characteristic parameters (IEC 60216-3:2002, IDT)

--- GB/T 11026.4-2012 heat resistance, electrical insulating materials - Part 4. Ageing ovens - Single - chamber ovens (IEC 60216-4-1:2006, IDT)

--- GB/T 11026.5-2010 heat resistance, electrical insulating materials - Part 5. aging oven temperature of 300 °C Precision Oven (IEC 60216-4-2:2000, IDT)

--- GB/T 11026.6-2010 heat resistance, electrical insulating materials - Part 6. Ageing

ovens - Multi-chamber ovens (IEC 60216-4-3:2000, IDT)

--- GB/T 11026.7-2014 heat resistance, electrical insulating materials - Part 7. determine the relative thermal index of insulation material (RTE) (IEC 60216-5:2008, IDT)

--- GB/T 11026.8-2014 Electrical material heat-resistant insulation - Part 8. Insulation material is determined by a fixed time frame method the heat index (TI and RTE) (IEC 60216-6:2006, IDT)

--- GB/T 20112-2006 Evaluation and identification of electrical insulation (IEC 60505:1999, IDT)

--- GB/Z28820.3-2012 polymer long-term radiation aging - Part 3. Low-voltage cable materials in-service monitoring procedures (IEC 61244-3:2005, IDT) this standard makes the following editorial changes.

--- Normative references increased IEC Guide109.2003 "Electrical Standard Products introduced environmental factors Guidelines", ISO 472:1999 "Plastics Terms and Definitions" and ISO 18064:2003 "thermoplastic elastomer and abbreviated name", and make the Consistent appearing in this standard text.

The standard proposed by China Electrical Equipment Industrial Association.

This standard by the National Standardization Technical Committee evaluation of electrical insulating materials and systems centralized (SAC/TC301) Drafting of this standard.

Suzhou Taihu New Materials Co., Ltd. Electrical Machinery Industry Beijing Electrotechnical Institute of Economic Research, deep Shenzhen City, measuring Detection Co., Ltd. Weikai Detection Technology.

## 1 Scope

This standard electrical insulating materials and devices typically recycled polymer and (or) re-evaluate factors related to the use of information. That Assessment information helps developers and design engineers select polymer materials and polymer products, and helps protect the resources so that the product life the end of the disposal costs are minimized. It should be based on an insulating material in the product and its function throughout the service life of polymer materials to assess the environmental and Capacitive, and material recycling products late life is one of the important factors. Through the use of appropriate dismantling product design, and usually makes Insulating material of choice to boost the amount of recycled material recovery programs. This standard covers only the recovery of materials recycled.

## 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 20877-2007 standard electrical products introduced environmental factors guidelines (IEC Guide109:2003, IDT) GB/T 22027-2008 thermoplastic elastomer naming and abbreviations (ISO 18064:2003, IDT) Test methods of solid insulating materials IEC 60093 volume resistivity and surface resistivity

(Methodsof testfor volumeresistivityandsurface resistivityof solid electricalinsulating materials) Determination of solid insulating materials IEC 60112 comparative tracking index method (Methodfor thedeterminationof theproof

andthe comparative tracking indicesof solidinsulating materials) IEC 60216-1 Electrical insulating materials - Part 1 Heat resistance. The aging procedures and evaluation of test results (Electrical insulating materials-Propertiesof thermal endurance-Part 1.

Ageing procedures and evaluation of test results) Heat Part 2 IEC 60216-2 Electrical insulating materials. heat resistance test to determine the criteria of an electrically insulating material selected Optional (Electricalinsulating materials-Thermal endurance properties-Part 2.

Determination of thermal

endurance properties of electrical insulating materials-Choice of test criteria) IEC 60216-3

Electrical insulating materials - Thermal resistance - Part 3. Calculation procedure thermal characteristic parameters (Electricalinsulating materials-Thermal endurance properties-Part

3. Instructions for calculating thermal endurance characteristics) IEC 60216-4-1 Electrical

insulating materials - Thermal resistance - Section 1 - Part 4. Ageing ovens - Single - chamber ovens (Electricalinsulating materials-Thermal endurance properties-Part 4-1.

Ageing ovens-Single-chamber ovens) IEC 60216-4-2 Electrical insulating materials -

Thermal resistance - Part 4 2. Ageing ovens up to 300 °C Precision oven

(Electricalinsulating materials-Thermal endurance properties-Part 4-2. Ageing ovens-Precision ovens for use up to 300 ° C) IEC 60216-4-3 Electrical insulating materials - Thermal resistance

- Part 4 Section 3. Ageing ovens - Multi-chamber ovens

(Electricalinsulating materials-Thermal endurance properties-Part 4-3.

Ageing ovens-Multi-chamber ovens) IEC 60216-5 Electrical insulating materials - Thermal resistance - Part 5. Determination of relative thermal index of insulation material (RTE)

[Electricalinsulating materials-Thermal endurance properties-Part 5.

Determination of relative thermal endurance index (RTE) of an insulating material]