

ICS 83.180
CCS G 38



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

GB/T 35494.1-2017

**Test methods for isotropic electrically conductive adhesives --
Part 1: General test methods**

各向同性导电胶粘剂试验方法 第1部分：通用方法

(English Translation)

Issued on: December 29, 2017

Implemented on: July 1, 2018

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China, Standardization
Administration of the People's Republic of China**

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Foreword

GB/T 35494 "isotropic conductive adhesive test method" is divided into the following sections.

--- Part 1. General methods;

--- Part 2. Determination of electrical properties of bonded parts;

--- Part 3. Determination of adhesive heat transfer performance;

--- Part 4. Determination of shear strength and resistance of bonded parts (rigid to rigid materials);

--- Part 5. Adhesive parts shear fatigue test method;

--- Part 6. Adhesive pieces impact peel test method;

--- Part 7. Environmental test methods;

--- Part 8. Electrochemical migration test method;

--- Part 9. Determination of high-speed signal transmission characteristics.

This section GB/T 35494 Part 1.

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

This section uses the redrafted law Amendment uses ISO 16525-1:2014 "adhesive isotropic conductive adhesive test method Part 1 Points. Common method. " this section compared with ISO 16525-1:2014, the structural changes see Appendix A.

This section and ISO 16525-1:2014 main technical differences and the reasons refer to Appendix B.

This part is proposed by China Petroleum and Chemical Industry Federation.

This part of the National Adhesive Standardization Technical Committee (SAC/TC185) centralized.

This section is drafted unit. Shanghai Institute of Rubber Products Co., Ltd., Shanghai

Institute of Synthetic Resin Co., Ltd., Changchun Yonggu Technology Co., Ltd., Jiangsu Changdian Technology Co., Ltd., Sanyou (Tianjin) Polymer Technology Co., Ltd., Guangzhou Baiyun Chemical Industry Co., Ltd.

the company.

1 Scope

GB/T 35494 provisions of this part of the isotropic conductive adhesive common test methods.

This section applies to the determination of the basic properties of isotropic conductive adhesives.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 1724 paint fineness determination GB/T 2572 Fiber reinforced plastics average linear expansion coefficient test method GB/T 2793 adhesive nonvolatile content determination Adhesives GB/T 2794 Determination of viscosity Single cylinder rotary viscometer method GB/T 2943 adhesive terminology GB/T 6739 Paints and varnishes - Determination of film hardness by the pencil method (GB/T 6739-2006, ISO 15184:1998, IDT) GB/T 7123.1 Determination of multi-component adhesive operational time GB/T 9870.1 vulcanized or thermoplastic - Determination of dynamic properties - Part 1. General (GB/T 9870.1-2006, ISO 4664-1:2005, IDT) GB/T 13354 liquid adhesive - Determination of density cup method Determination of fluorine, chlorine, phosphate, nitrite, nitrate and sulfate in industrial circulating cooling water and boiler water GB/T 14642 Sub-chromatography GB/T 15454 Industrial circulating cooling water - Determination of sodium, ammonium, potassium, magnesium and calcium - Ion chromatography GB/T 20740 Adhesive Sampling (GB/T 20740-2006, ISO 15605:2000, IDT) GB/T 20967 non-destructive testing visual inspection General GB/T 22567 electrical insulating materials - Determination of glass transition temperature of the test method GB/T 22588 flash method to measure thermal diffusivity or thermal conductivity HG/T 3344 Determination of film water absorption ISO 11359-2 Plastics - Thermodynamic analysis (TMA) - Part 2. Determination of linear thermal expansion coefficient and glass transition temperature [Plastics-Thermomechanical analysis (TMA) -Part 2: Determinationofcoefficientoflinearthermal expansionandglasstransitiontemperature] ASTM D2196 Rotational (Brookfield) Viscometer Test Method for Determining Rheological Properties of Non-Newtonian Materials [Standard Test Methods for Rheological Properties of Non-Newtonian Materials by Rotational (Brookfield type) Vis-cometer] ASTM D2739 Conductive Adhesives Volume

Resistivity Test Method (StandardTestMethodforVolumeResistivityof ConductiveAdhesives)
ASTMD4287 taper/flat viscometer high shear viscosity test method
(StandardTestMethodforHigh-ShearViscosityUsingaCone/PlateViscometer)