

ICS 83.080.01

CCS G 31



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

GB/T 2407-2008

Replacing GB/T 2407-1980

**Plastics -- Determination of flammability characteristics of rigid
plastics in the form of small specimens in contact with an
incandescent rod**

(English Translation)

Issued on: August 4, 2008

Implemented on: April 1, 2009

Issued by: Standardization Administration of China

Table of Contents

Foreword
1 Scope
2 Normative references
4 Test Significance
5 Instruments
5.1 Test Chamber
5.2 Test apparatus

Foreword

This standard is equivalent to international standards ISO 181. 1981 "when plastic --- hard plastic hot rod small specimens in contact with the combustion characteristics test Fixed "(in English).

To facilitate the use of ISO 181. 1981 made the following changes.

- The "this International Standard" by "this standard";
- Remove the ISO 181 foreword, preface to increase the national standards;
- Chapter of the International Standard 4,5,6,7,8,9 made editorial changes;
- International standard to this standard 9.2 Chapter 9 g);
- Use of decimal notation. "" Instead of the international standard decimal symbol "."
- For the ISO 181. 1981 and other international standards referenced in our country is equivalent to using the standard, this standard with reference to our country Standard home instead of corresponding international standards, and the rest is not tantamount to the adoption of standard international standard, in this standard are directly References.

This standard replaces GB/T 2407-1980 "Test method for flammability of plastic hot rod method", compared with the GB/T 2407-1980 Main Technical content changes as follows.

- Change the standard name, increasing the foreword;
- Increased principle, meaning test chapter;
- Determined to change the sample marking and results.

The standard proposed by China Petroleum and Chemical Industry Association.

This standard by the National Standardization Technical Committee of plastic (SAC/TC15)

centralized.

1 Scope

This standard specifies the rigid plastic small sample when hot rods in contact with the determination of the performance of combustion.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 5471-2008 compression molded thermoset plastic specimens (ISO 295:2004, IDT)
 GB/T 9352-2008 plastic thermoplastic material compression molded sample (ISO 293:2004, IDT) GB/T 17037.1-1997 Preparation of injection molded thermoplastic material specimens - Part 1. General principles and multipurpose specimens and long Preparation of test specimens (ISO 294-1:1996, IDT) Article ISO 2818:1994 Sample Preparation Method plastics machining Principle 3 the end of the horizontal specimen gripping, the free end of the sample and heated to a hot rod contacting 955 °C ± 15 °C predetermined time after the qualification test Kind of combustion characteristics.

4 Test Significance

This standard does not apply to use in assessing the risk of fire might occur.

Under this standard test conditions for the material made of the comparative burning characteristics of various materials, inspection process, as well as material Measure of performance deterioration or change the material before or during use in the combustion of greater value. This test is for quality control and product evaluation Designed for non-performance under the conditions of no significance tests specified in this material, it does not predict the actual combustion of the material in the case of performance.

5.1 Test Chamber

Volume of about 1m³, with ventilation and observation window.

5.2 Test apparatus

Test apparatus consists of the following parts (see Figure 1).

5.2.1 Fixture

To fix the sample, 1 (XX cross-section) shown in FIG. There are fixed to the slide base of the upper end of the upright support, you can experiment with different lengths Sample.

5.2.2 Ignition source

Hot rod with metal contacts, diameter 8mm, length 100mm, can be heated to $955\text{ }^{\circ}\text{C} \pm 15\text{ }^{\circ}\text{C}$.

5.2.3 Insulation (ceramic or asbestos) Bracket

For fixing hot rods, hot rods to ensure that the sample can be separated if necessary.

GB/T 2407-2008/ISO 181. 1981