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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 5473-2016

Replacing GB/T 5473-1985

Plastics -- Phenol formaldehyde moulding -- Detection of free ammonia

塑料 酚醛模塑制品 游离氨的测定

(English Translation)

Issued on: June 14, 2016

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Foreword

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

This standard instead of GB/T 5473-1985 "phenolic molded products free ammonia test", compared with GB/T 5473-1985, the main technical the changes are as follows.

--- standard name changed to "plastic phenolic molding products free ammonia determination";

--- Added "preface";

--- removed the standard text "This standard is equivalent to the international standard ISO 172. 1978" plastic phenolic molded products free ammonia (See the 1985 edition);

--- modified the range of test paper, with "pH1.0 ~ 11.0" instead of "pH1 ~ 14" (see 3.4, 1985 version 3.4);

--- Remove the standard additional instructions.

This standard uses the translation method equivalent to ISO 172. 1978 "Determination of free ammonia in plastic phenolic molding products".

For ease of use, this standard has been modified as follows.

- Added "e) test date" in Chapter 7, in order to increase the traceability of the test.

This standard is proposed by the China Petroleum and Chemical Industry Association.

This standard by the National Plastics Standardization Technical Committee Thermosetting Plastics Subcommittee (SAC/TC15/SC11) centralized.

The drafting of this standard. Shanghai Eurasian Synthetic Materials Co., Ltd., in the blue

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dawn Chemical Research and Design Institute Co., Ltd., the national synthetic resin Quality Supervision and Inspection Center, Changshu Southeast Plastic Co., Ltd., Shaxian Hongsheng Plastic Co., Ltd., Shandong Shengquan Chemical Co., Ltd.

1 Scope

This standard specifies that the test paper be placed in the gas escaped from the powder sample to determine free ammonia or other volatile bases in the phenolic molded article Qualitative method.

This standard is also applicable to the determination of non-aminophenolic molded products.

2 Principle

The alkaline gas escaped from the powder sample contained in the sealed flask was measured with a wide range of test strips.

3 Instruments

3.1
Equipment for making molded products into powder.

3.2
balance. sense of 0.01g.

3.3
with a plug mouth glass flask. capacity 50mL.

3.4
wide range of test paper. pH1.0 ~ 11.0.

4 Preparation of sample

Use a file, milling, grinding, car or drill method to make a fully representative molded product made of powder, careful not to overheat the material. Prepared well should be tested immediately (see Chapter 5).

5 Operating procedures

Weigh about 1g of the sample (Chapter 4), quickly into the flask (3.3), and immediately with the plug tight. And then moisten it with distilled water the test paper (3.4) is clamped between the stopper and the bottleneck so that one end of the test strip is inserted into the flask.

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CAUTION. Do not allow the test strip to come into contact with the specimen.

After 30 minutes, observe the change of the color of the test paper and make a record.

6 Results show

If the test paper does not change color, it is reported that the molded article does not contain free ammonia or other volatile bases.

If the test paper changes color, indicating an alkaline gas, the report molded article contains free ammonia or other volatile base.

7 Test Report

The test report should include the following.

a) indicate the use of this standard;

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