

ICS 97.140
CCS Y 80



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

GB 28481-2012

**Limit of harmful substances of plastic furniture
(English Translation)**

Issued on: June 29, 2012

Implemented on: July 1, 2013

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine**

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Foreword

Chapter 4 of this Standard is mandatory, and the rest are recommended.

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

1 Scope

This Standard specifies the terms, requirements, test methods and inspection rules for the limit of harmful substances of plastic furniture.

This Standard applies to all kinds of plastic furniture products used indoor and outdoor, as well as in public places.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies to this document. For undated references, the latest edition (including any amendment) applies to this document.

GB 5296.6-2004, Instructions for use of products of consumer interest - Part 6: furniture

GB 6675-2003, National safety technical code for toys

GB/T 16288-2008, Marking of plastics products

GB/T 22048-2008, Toys and children's products - Determination of phthalate plasticizers in polyvinyl chloride plastic

SN/T 1877.2-2007, Determination of polycyclic aromatic hydrocarbons in plastic and plastic article

SN/T 2005.2-2005, Determination of polybromobiphenyls and polybromobiphenyl ethers in electrical and electronic equipment - Part 2: GC-MS method

3 Terms and definitions

The following terms and definitions are applicable to this document.

3.1 Plastic furniture

Furniture made entirely of plastic materials, or furniture made of frames or components mainly composed of plastic sheets, pipes, profiles, etc.

3.2 Phthalates

Carry out according to the method specified in Appendix C of GB 6675-2003.

5.4 Determination of the total of benzo[alpha]pyrene and polycyclic aromatic hydrocarbons (PAH)

Carry out according to method 1 specified in SN/T 1877.2-2007.

5.5 Determination of polybrominated biphenyls

Carry out according to the method specified in SN/T 2005.2-2005.

5.6 Determination of polybrominated diphenyl ether

Carry out according to the method specified in SN/T 2005.2-2005.

6.1 Inspection items

All technical contents listed in this Standard are type inspection items.

6.1.1 Under normal production conditions, type inspection shall be carried out at least

once a year.

6.1.2 Type inspection shall be carried out in any of the following cases:

- when a new product is initially finalized;
- when the product is produced off-site;
- when there are major changes in product formula, production process and raw materials;
- when production is resumed after a suspension of three months and above.
- when it is requested by the client;
- when the national quality and technical supervision agency proposes type inspection requirements.

6.2.1 When the results of all inspection items meet the requirements of this Standard,

the product is determined to be qualified; if any of the inspection results does not meet the requirements of this Standard, the product is determined to be unqualified.

6.2.2 Where the furniture contains different plastic materials, if all materials meet the

requirements of this Standard, the product is judged to be qualified; if any one of the

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