

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

HJ 2540-2015

**Technical requirement for environmental labeling products.
Wood Plastic Composites Products**

环境标志产品技术要求 木塑制品

(English Translation)

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Foreword

To implement the "People's Republic of China Environmental Protection Law" to reduce the wood-plastic products in the production and use of the process of environmental and human health Influence, protect the environment, develop this standard.

This standard puts forward the requirement of the amount of plant fiber and harmful substances in wood-plastic products.

This standard is the first release.

This standard applies to China Environmental Labeling Product Certification.

This standard is formulated by the Ministry of Environmental Protection Science and Technology Standards Division in accordance with the 2013 national environmental protection standard system.

The main drafting unit of this standard. Environmental Development Department of Environmental Protection Department.

The environmental protection department of this standard approved on February 10, 2015.

This standard is implemented as of May 1, 2015.

This standard is explained by the Ministry of Environmental Protection.

Environmental labeling products technical requirements wood - plastic products

1 Scope of application

This standard specifies the terms and definitions, basic requirements, technical contents and inspection methods of wood-plastic products environmental labeling products.

This standard applies in addition to food and drug contact with the products and children's toys and other types of wood products.

2 Normative reference documents

The contents of this standard refer to the terms of the following documents. For undated references, the valid version applies to this standard.

GB 18584 interior decoration materials wood furniture harmful substances limited
GB 18586 interior decoration materials PVC sheet in the floor of harmful substances limited
GB/T 22048-2008 Toys and children's products - Determination of phthalate plasticizers in polyvinyl chloride plastics
Technical requirements for environmental labeling products - Waterproofing membrane
Technical requirements for environmental labeling products - Wood - based panels and their products

3 Terms and definitions

The following terms and definitions apply to this standard.

Wood Plastic Composites Products by the wood fiber material and thermoplastic polymer according to a certain proportion of composite molding products.

4 Basic requirements

4.1

product quality should meet the corresponding product quality standards.

4.2

The pollutant discharge of the product manufacturer shall conform to the pollutant discharge standard stipulated by the state or local.

4.3

production enterprises in the production process should strengthen the clean production.

5 Technical content

5.1

Do not use hydrochlorofluorocarbons (HCFCs) as a blowing agent.

5.2

Lead, cadmium and its compounds should not be used as stabilizers.

5.3

The amount of wood fiber added should meet the requirements of Table 1.

Table 1 wood fiber dosage requirements

Product category Addition (% by mass,%) Polyolefin ≥ 50 Polyvinyl chloride ≥ 20

5.4

Products Hazardous substances should meet the requirements of Table 2.

Table 2 Product Hazardous Substances

Item limit

The total amount of phthalate (see Appendix A),% ≤ 0.1 Total volatile organic compounds (TVOC), $\text{mg}/\text{m}^2 \cdot \text{h}$ (72h) ≤ 0.50 Formaldehyde emission, $\text{mg}/\text{m}^3 \leq 0.08$ Heavy metal, mg/m^2 Soluble lead ≤ 10 Soluble cadmium ≤ 10 Soluble chromium ≤ 10 Soluble mercury ≤ 10

5.5

Product coating The heavy metal content of the coating shall comply with the requirements of GB 18584.

6 Test method

6.1

Technical content 5.4 Determination of total volatile organic compound (TVOC) in formaldehyde emission In accordance with the provisions of HJ/T 571-2010 Method.

6.2

Technical content 5.4 The detection of phthalates in accordance with GB/T 22048-2008 method.

6.3

Technical content 5.4 Determination of heavy metals in accordance with the method of HJ 455-2009.

6.4

Technical content 5.5 Detection of heavy metals in accordance with GB 18586 method.

6.5

Other requirements in the technical content are verified by means of document review and on-site inspection.

Appendix A

(Normative appendix) Phthalates to be controlled Chinese name English name abbreviation
Di-iso-nonylphthalate phthalate Di-iso-nonylphthalate Di-n-octylphthalate DNOP
(2-ethylhexyl) phthalate Di- (2-ethylhexy) -phthalate DEHP Diisodecylphthalate DIDP

Butylbenzylphthalate BBP Dibutylphthalate Dibutylphthalate