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The recovery marking of products and components

产品及零部件可回收利用标识

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Foreword

Appendix A of this standard is a normative appendix.

This standard was proposed by the Department of Energy Conservation and Comprehensive Utilization of the Ministry of Industry and Information Technology, the Department of Resource Conservation and Environmental Protection of the National Development and Reform Commission.

This standard shall be under the jurisdiction of the National Product Recycling Foundation and Management Standardization Technical Committee.

Drafting organizations of this standard: China National Institute of Standardization, China Electronics Technology Standardization Institute, Beijing University of Technology, Peking University, China Household Electrical Appliances Association Waste Electrical and Electronic Equipment Recycling Branch, China Academy of Environmental Sciences, China Recovery Resources Recycling Association, Renmin University of China, Haier Group, Hisense Kelon Electric Co., Ltd., Guangdong Zhigao Air Conditioning Co., Ltd., Suzhou Samsung Electronics Co., Ltd., Henan Xinfei Electric Co., Ltd., Boxihua Household Appliances Co., Ltd., Daikin Air Conditioning (Shanghai) Co., Ltd., Ningbo Aux Air Conditioning Co., Ltd., Philips (China) Investment Co., Ltd., Midea Group Washing Machine Manufacturing (Hefei) Co., Ltd., Wuxi Little Swan Co., Ltd.

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The recovery marking of products and components

1 Scope

This standard specifies the technical requirements for the types of recovery marking of products and components, the recovery marking and requirements of products, the indication of composition of plastic components, the recycling marking, etc.

This standard applies to producers and importers.

2 Normative references

The provisions in following documents become the provisions of this standard through reference in this standard. For the dated references, the subsequent amendments (excluding corrections) or revisions do not apply to this standard; however, parties who reach an agreement based on this standard are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

GB/T 1844.1 Plastics - Symbols and abbreviated terms - Part 1: Basic polymers and their special characteristics

GB/T 1844.2 Plastic - Symbols and abbreviated terms - Part 2: Fillers and reinforcing materials

GB/T 1844.3 Plastics - Symbols and abbreviated terms - Part 3: Plasticizers

GB/T 1844.4 Plastics - Symbols and abbreviated terms - Part 4: Flame retardants

GB/T 16288 Marking of plastics products

GB/T 20861 Terminology of waste product recovery

SJ/T 11363 Requirements for concentration limits for certain hazardous substances in electronic information products

3 Terms and definitions

The terms and definitions as defined in GB/T 20861 and the following terms and definitions apply to this standard.

3.1

Hazardous substance

Substances contained in the product that are harmful to humans, animals, plants and the environment, including lead (Pb), mercury (Hg), cadmium (Cd), hexavalent chromium (Cr^{6+}), polybrominated biphenyls (PBB), polybrominated diphenyl ethers (PBDE) and so on.

3.2

Producer

A natural or legal person engaged in the production of products within the territory of the People's Republic of China.

3.3

Importer

A natural or legal person engaged in the import of products within the territory of the People's Republic of China.

3.4

Material

A substance or a mixture of substances, such as metals and alloys, plastics, ceramics, rubber, and the like.

3.5

Homogeneous material

Materials with the same composition and which cannot be further separated by mechanical means.

3.6

Component

A structural unit with a certain function or purpose in the product.

3.7

Environment-friendly use period

The period in which the use of the product, by the product user, which contains hazardous substance that will not leak or be abrupt under the

of plastic compositions

5.1 Composition and recovery marking of plastic components

Identify the plastic composition used in the product and component for reference by producers, consumers, recyclers, and processors.

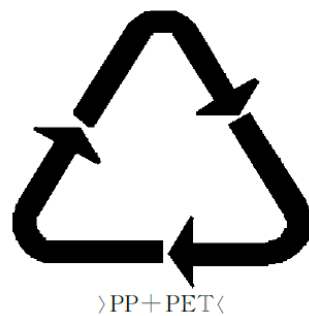
5.2 Object of marking

Plastic parts which have a mass of not less than 25 g or a maximum surface area of not less than $(5 \times 10) \text{ mm}^2$ should all be marked.

5.3 Requirements of marking

The abbreviation code of plastic composition is executed in accordance with GB/T 1844.1, GB/T 1844.2, GB/T 1844.3, GB/T 1844.4. The marking requirements of plastic components are in accordance with GB/T 16288.

The recovery plastic components may use the marking pattern which combines the graphics and the plastic composition codes, the example is as shown in Figure 3.



Note: > PP + PET < indicates the composition of plastics

Figure 3 -- Identification of composition and recovery marking of plastic compositions

5.4 Location of marking

5.4.1 Provide marking at the location of the component which is easy to view after separated and disassembled, for example, the surface of the component, the convex part where the unevenness changes greatly, try to avoid marking in the concave part that is difficult to view.

5.4.2 Provide marking at the visible part which is not covered.

5.5 Special circumstances

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