



GB/T 18455-2022

Package Recycling Marking

包装回收标志

State Administration for Market Regulation
Standardization Administration of China

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Foreword

This document is drafted in accordance with the regulations of *Directives for Standardization – Part 1: Rules for the Structure and Drafting of Standardizing Documents* (GB/T 1.1-2020).

This standard supersedes *Package Recycling Marking* (GB 18455-2010). Compared with GB 18455-2010, in addition to structural adjustments and editorial changes, this document has the main technical changes as follows:

- a) The scope of this document is changed, and glass and consolidated packaging are added in the “Scope” (see Chapter 1 of this document, and Chapter 1 of Edition 2010);
- b) The definition of “Supplier” is changed, “Packaging component” and “Complex packaging material” are deleted, and the three terms of “Packaging material”, “Packaging component” and “Consolidated packaging” are added (see Chapter 3 of this document, and Chapter 3 of Edition 2010);
- c) The description for the recycling marks of other plastic products other than common plastics and the definition for the plastic packaging products of a single material are added (see 4.3.2 and 4.3.3 of this document);
- d) The content of “Package Recycling Markings for Biodegradable Plastics” is deleted (see 4.2.2 of Edition 2010);
- e) The recycling marking of the “Iron package” is changed, and the recycling marking of “Steel package” is added (see 4.4 of this document, and 4.1 of Edition 2010);
- f) The recycling marking of “Glass package” is added (see 4.5 of this document);
- g) The determination method of main materials in the consolidated packaging is changed, and the recycling marking of the “Consolidated packaging” is added (see 4.6 of this document, and 4.3 of Edition 2010);
- h) The “Specifications and Dimensions” of the recycling marking are added (see 5.2 of this document);
- i) The “Color” of the recycling marking is added (see 5.3 of this document);
- j) The “Quantity” of the recycling marking is added (see 5.4 of this document, and 5.2 and 5.3 of Edition 2010);
- k) The “Position” of the recycling marking is added (see 5.5 of this document);
- l) The “Making” requirements of the recycling marking are changed (see 5.6 of this document, and 5.5 of Edition 2010).

Please note that some contents of this document may involve patents. The issuing agency of this document does not undertake the responsibility of recognizing the patents.

This standard is proposed by and under the jurisdiction of the National Technical Committee 49 on Packaging of Standardization Administration of China (SAC/TC 49).

The drafting organizations of this document are: Jiangsu Caihua Packaging Group Co., Ltd., Institute of Microbiology for Guangdong Academy of Sciences, Guangzhou Leiwest Pak Co., Ltd., Henan Yinjinda New Material Co., Ltd., China National Export Commodities Packaging Research Institute, Zhongshan Tentop Fine Chemical Co., Ltd., Foshan Nanhai LD Printing & Packaging Co., Ltd., Sichuan Yibin Plastic Packaging Materials Co., Ltd., Jinan Quanhua Packing Products Co., Ltd., Foshan Southern Packaging Group Limited, Hebei Shangdong Packaging Technology Co., Ltd., Guangdong Chaozhou Institute of Quality & Metrology Supervision & Inspection, Ganjiang New Material Co., Ltd., Shandong Institute for Product Quality Inspection, Dongguan Mingfeng Packaging Corporation Limited, Jiaying Xingyue Packaging Material Co., Ltd., Jinan Digerui Instrument Co., Ltd., Shanghai Royal New Materials Technology Co., Ltd., Jilin Province Product Quality Supervision and Inspection Institute, Hangzhou Super Star Packaging Material Co., Ltd., Shanghai Ocean University, Guangdong Euro Asia Packaging Limited Company, Shanghai Bojiang New Material Technology Co., Ltd., Shenzhen YUTO Packaging Technology Co., Ltd., Zhejiang Fangyuan Test Group Co., Ltd., RR Donnelley (China) Investment Co., Ltd., China Packaging Federation, Xiamen Luhai Pro-environment Co., Ltd., Qingdao Yongchang Plastic Industry Co., Ltd., Xinjiang Uygur Autonomous Region Product Quality Supervision and Inspection Institute, Jiangsu Taylor Packaging Engineering Group Co., Ltd., Zhanjiang Cigarette Packaging Material Printing Co., Ltd., Hubei J.S. Machine, China National Resources Recycling Association, Chaozhou Chao'an District Meida Printing Industrial Co., Ltd., Tianjin Huaheng Packaging Material Co., Ltd., Shanghai Dajue Packaging Product Co., Ltd., Xiamen Jufu Plastic Products Co., Ltd., and Fujian Kaida Group Co., Ltd.

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The issuing condition for previous editions of the standards superseded by this standard is:

- The first issue was published as GB 18455-2001 in 2001, and it was first revised in 2010.
- It is the second revision now.

Packaging Recycling Marking

1. Scope

This document specifies the types, basic graphs and indication requirements of the packaging recycling marking.

This document is applicable to the design, production, trading and recycling activities of the packaging containers, packaging products or packaging components made of paper, plastics, metal, glass, consolidated materials, etc.

2. Normative References

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

GB/T 16288 Marking of Plastics Products

GB/T 16716.1 Packaging and the Environment – Part 1: General Rules

GB/T 16716.2 Packaging and the Environment – Part 2: Optimization of the Packaging System

3. Terms and Definitions

The following terms and definitions apply to this document.

3.1

Supplier

The operator taking responsibility for the packages or packaging products put on the market or delivered for use.

Note: It refers to the owner of the product and package thereof before selling, or the manufacturer or seller indicated on the label, and more specifically the operator who voluntarily execute this document. When the packages used by the supplier are supplied by other manufacturers, the supplier can trace the relevant technical documents.

[Source, GB/T 16716.1-2018, 3.1, modified]

3.2

Packaging material

The general term of materials (e.g.: timber, metal, plastics, glass, paper, etc.) which are used for manufacturing packaging containers and constituting product packages.

[Source: GB/T 14122.1-2008, 5.1]

3.3

Packaging component

The constituent parts which can be separated by hand or simple physical methods for packages.

[Source: GB/T 16716.2-2018, 3.4]

3.4

Consolidated packaging

The package made of consolidated packaging which is formed by consolidating two or more layers of materials.

[Source: GB/T 14122.1-2008, 5.9]

4. Packaging Recycling Markings

4.1 Basic graph

For the names of common packaging materials and the basic graph of recycling markings, see Table 1.

Table 1 Basic Graphs of Packaging Recycling Markings

Material Name	Basic Graph	Description
Paper		For the indication method, see 4.2.
Plastics		For the indication method, see 4.3.
Metal		For the indication method, see 4.4.
Glass		For the indication method, see 4.5.
Consolidated material		For the indication method, see 4.6.

4.2 Paper package

The recycling markings for the products such as paper boxes, cartons, etc. are composed of the basic graph and words. For the example of the recycling marking, see Figure 1.





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