



NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

GB 4806.7-2023

**National food safety standard - Food contact plastic
materials and articles**

食品安全国家标准 食品接触用塑料材料及制品

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Foreword

This standard replaces GB 4806.6-2016 *National food safety standard - Food contact plastic resin*; GB 4806.7-2016 *National food safety standard - Food contact plastic materials and articles*; the former National Health and Family Planning Commission of the People's Republic of China's Announcement No. 14 [2013]; Announcement No. 14 [2014]; Announcement No. 5 [2016]; Announcement No. 7 [2016]; Announcement No. 10 [2016]; Announcement No. 2 [2017]; Announcement No. 11 [2017]; and the plastic resins in Announcement No. 9 [2018], Announcement No. 11 [2018], Announcement No. 15 [2018], Announcement No. 4 [2020], and Announcement No. 6 [2020] of the National Health Commission of the People's Republic of China.

The main changes of this standard are as follows, comparing with above standards and announcements:

- The clause "Scope" is modified;
- The clause "Terms and definitions" is added;
- The requirements for raw materials is modified;
- The index limit of aromatic primary amines is added;
- Other physical and chemical indexes is added;
- Other technical requirements is added;
- The requirements for labels is modified;
- Annex A is modified;
- Annex B is added.

National food safety standard - Food contact plastic materials and articles

1 Scope

This standard applies to food contact plastic materials and articles, including unvulcanized thermoplastic elastomer materials and articles.

This standard also applies to the food contact starch-based plastic materials and articles.

2 Terms and definitions

2.1

resin

macromolecular substance that is synthesized by addition polymerization, condensation polymerization, microbial fermentation polymerization and other polymerization reactions with corresponding monomer and other starting materials as main raw materials, as well as chemically modified natural or synthetic macromolecular substance, it is also known as the polymer

2.2

resin blend

macroscopically uniform and continuous solid polymer material which is blended with two or more polymers with the same or different chemical structures and physical states by physical and/or chemical methods, in which each polymer can be used as the main structural constituent or phase of resin materials and articles, it is also known as polymer alloy

2.3

plastic materials

polymer materials between resin and plastic articles that is made by taking one or several resins (including resin blends) or their premixes and prepolymers as main structural constituents, adding necessary additives and processing under

certain temperature and pressure, including plastic granules (or chips), powders, masterbatch, sheets and other plastic materials

2.4

plastic articles

finished food contact articles (or final products) with certain shape which are processed by taking resin (containing resin blend) or plastic materials as raw materials and adding necessary additives

2.5

masterbatch

condensate that is made by overloading additives (such as colorants, fillers, reinforcing, stabilizers, etc.) that affect the physical properties of plastic materials and articles in one or several resins, and can be processed into other plastic materials and articles by blending with resin or plastic materials

3 Basic requirements

The food contact plastic materials and articles shall meet the requirements of GB 4806.1.

4 Technical requirements

4.1 Requirements for raw materials

4.1.1 The use of resins in food contact plastic materials and articles shall meet the requirements of Annex A and relevant announcements.

4.1.2 The use of additives (including plant fiber fillers) in food contact plastic materials and articles shall meet the requirements of GB 9685 and relevant announcements.

4.1.3 The starch used in the food contact starch-based plastic materials and articles shall be edible starch or modified starch. Edible starch shall meet the requirements of GB 31637. Modified starch shall be of the variety specified in GB 2760 and approved by relevant announcements. And its quality specifications shall meet the requirements of corresponding national food safety standards.