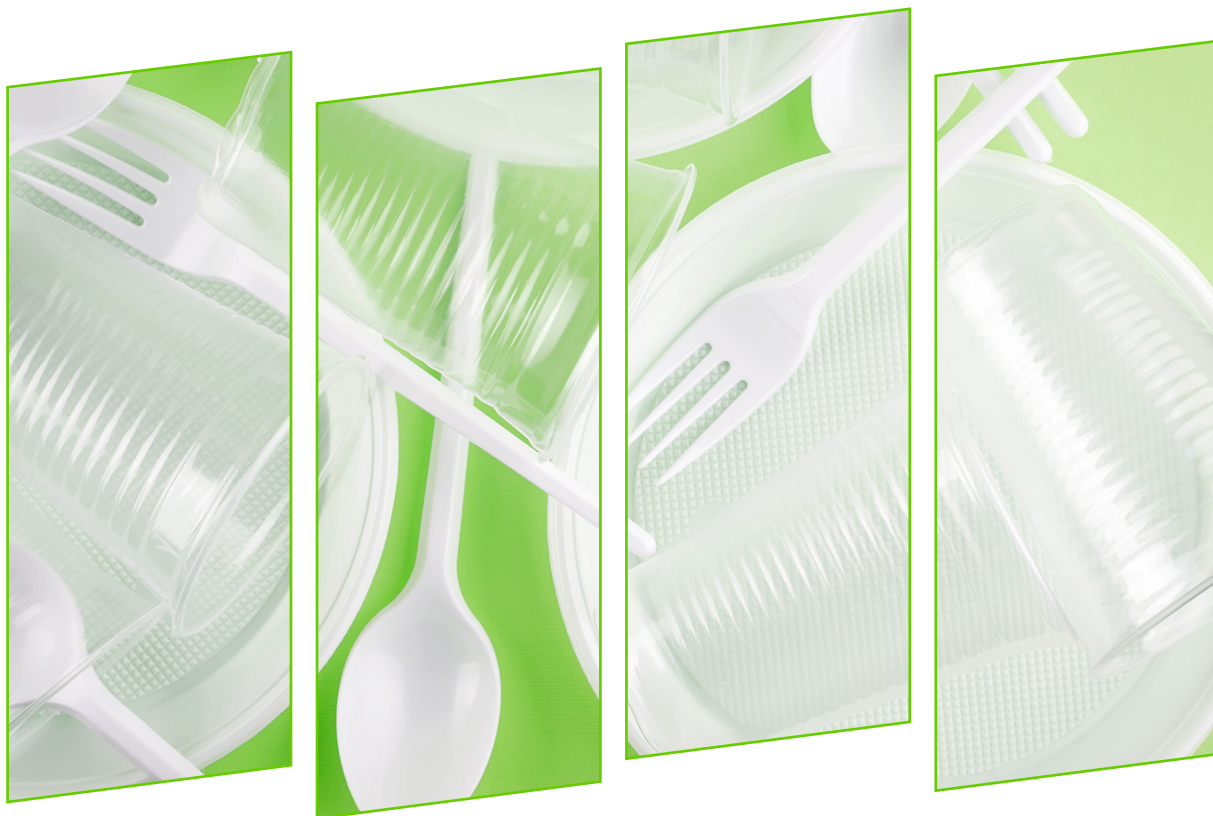




GB 4806.7-2023

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

National Health Commission of the People's
Republic of China
State Administration for Market Regulation of the
People's Republic of China

Release Date: Sept. 06, 2023
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Translated by ChemLinked

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Foreword

This standard replaces the plastic resins in *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*, Announcements (No. 14 of 2013, No. 14 of 2014, No. 5 of 2016, No. 7 of 2016, No. 10 of 2016, No. 2 of 2017, and No. 11 of 2017) of the former National Health and Family Planning Commission, and Announcements (No. 9 of 2018, No. 11 of 2018, No. 15 of 2018, No. 4 of 2020, and No. 6 of 2020) of the National Health Commission.

Compared with the above-mentioned standards and announcements, the main changes of this standard are as follows:

- the scope has been revised;
- the terms and definitions have been added;
- the raw material requirements have been revised;
- the indicator limits for primary aromatic amines have been added;
- other physicochemical indicators have been added;
- other technical requirements have been added;
- the labeling and marking requirements have been revised;
- the Annex A has been revised;
- the Annex B has been added.

National Food Safety Standard

Food Contact Plastic Materials and Articles

1 Scope

This standard applies to food contact plastic materials and articles, including non-vulcanized thermoplastic elastomer materials and articles. This standard also applies to food contact starch-based plastic materials and articles.

2 Terms and Definitions

2.1 Resins

Macromolecular substances synthesized mainly with corresponding monomers and other starting materials through polymerization reactions such as addition polymerization, condensation polymerization, microbiological fermentation polymerization, and chemically modified natural or synthetic macromolecular substances, also known as "polymers".

2.2 Resin blends

Macroscopically uniform and continuous solid polymer materials obtained by mixing two or more polymers with the same or different chemical structures and physical states through physical and/or chemical methods, of which each polymer can serve as the main structural component or phase of the resin materials and their articles, also known as "polymer blends" or "polymer alloys".

2.3 Plastic materials

Polymer materials between resins and plastic articles that are made by processing one or more resins (including resin blends) or their premixes, prepolymers, etc. as the main structural components at a certain temperature and pressure, with addition of necessary additives, including plastic pellets (or slices), powders, master batches, sheets, and other plastic materials.

2.4 Plastic articles

Molded products (or end products) with a certain shape that are molded and processed mainly with resins (including resin blends) or plastic materials, with addition of necessary additives, for contact with food finally.

2.5 Master batches

Concentrates made by adding excessive additives that affect the physical characteristics of plastic materials and articles (such as colorants, fillings, reinforcing agents, stabilizers, etc.) to one or more resins, which can be processed into other plastic materials and articles only when mixed with resins or plastic materials.

3 Basic Requirements

Food contact plastic materials and articles shall comply with the provisions of GB 4806.1.

4 Technical Requirements

4.1 Raw material requirements

4.1.1 The use of resins in food contact plastic materials and articles shall comply with the provisions of Annex A in this standard and relevant announcements.

4.1.2 The use of additives (including plant fiber fillings) in food contact plastic materials and articles shall comply with the provisions of GB 9685 and relevant announcements.

4.1.3 The starch used in food contact starch-based plastic materials and articles shall be edible starch or modified starch. Edible starch shall comply with the provisions of GB 31637; Modified starch shall be a variety approved for use in GB 2760 and relevant announcements, and its quality specification shall comply with the provisions of the corresponding national food safety standards.

4.2 Sensory requirements

The sensory requirements of food contact plastic materials and articles shall comply with the provisions of Table 1.

Table 1 Sensory requirements

Items	Requirements
Sensory indicators	With normal color and without off odor, impurities, <i>etc.</i>
Soaking solution	The soaking solution obtained from the migration test shall not exhibit any sensory deterioration such as turbidity, sedimentation, or off odor.

4.3 Physicochemical indicators

4.3.1 General physicochemical indicators



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