



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

GB 4806.6-2016

**National Food Safety Standard Plastic Resin used in
food-contact**

食品安全国家标准 食品接触用塑料树脂

(English Translation)

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Table of Contents

Foreword...	3
1 Scope...	4
2 Terms and definitions...	4
3 Basic requirements...	4
4 Technical requirements...	4
5 Other...	5
Appendix A Plastic resin allowed to use and use requirements...	6

Foreword

The standard replaces GB 4803-1994 "Hygienic standard for polyvinyl chloride resin used as food container and packaging material", GB 9691-1988 "Hygienic standard for polyethylene resin used as food packaging material", GB 9692-

1988 "Hygienic standard for polystyrene resin used as food packaging material",

GB 9693-1988 "Hygienic standard for polypropylene resin used as food packaging material", GB 13114-1991 "Hygienic standard for polyethylene terephthalate resin used as food containers and packaging materials", GB 13116-1991 "Hygienic standard for polycarbonate resin used as food containers and packaging materials", GB 15204-1994 "Hygienic standard of vinylidene chloride-vinyl chloride copolymer resins for food containers and packaging materials", the resin part of GB 13115-1991 "Hygienic standard for unsaturated polyester resin and glass fiber reinforced plastics used as food containers and packaging materials", GB 16331-1996 "Hygienic standard of nylon 6 resin for food packaging material", AND the relevant parts on plastic resin in the "Announcement on the publication of the list of 107 resins available for food packaging material including polyhexamethylene adipamide" (No.23 announcement in 2011, original Ministry of Health).

This standard, as compared with the above standards and announcements, has the following main changes.

- MODIFY the standard name into "National Food Safety Standard - Plastic Resin used in food-contact";
- MODIFY the scope;
- ADD terms and definitions;
- ADD the basic requirements;
- ADD the raw material requirements;
- MODIFY the physical and chemical indicators;
- ADD the general requirements for migration test;
- ADD the marking requirements;
- ADD Appendix A.

National Food Safety Standard

Plastic Resin used in food-contact

1 Scope

This standard applies to the resin and resin blends used for the production of food contact plastic materials and products, including non-vulcanized thermoplastic elastomer resin and its blends.

2.1 Resin

It refers to the macromolecular substances AND the chemically modified natural macromolecules, also known as polymers synthesized by the polymerization reaction such as addition polymerization, condensation polymerization and microbial fermentation polymerization, using the monomers with lower relative molecular mass and other starting materials as the main materials.

2.2 Resin blends

It refers to the macroscopically uniform solid polymer materials as formed by physical and/or chemical mixing of two or more polymers having the same or

different chemical structures and physical states, with each polymer being used as the main structural components or phases of the resin material and its product, which is also known as polymer blends or polymer alloys.

4.1.1 Raw materials for the production of the food contact plastic resin shall

ensure that under normal and expected conditions of use, it shall not harm to human health.

4.1.2 The resin allowed to use shall comply with the provisions of Appendix A and the relevant announcements.

4.2 Sensory requirements

Sensory requirements shall comply with the requirements of Table 1.

4.3 Physical and chemical indicators

Such physical and chemical indicators such as specific migration limits, total specific migration limits, and maximum residuals of monomers and other starting materials shall comply with the provisions of Appendix A and the related announcements.

5.2.1 The marking identification shall, in addition to complying with the requirements of GB 4806.1, be marked of the resin name in the product label, instruction, or accompanied documents in accordance with Appendix A, AND the polymer blends shall be marked of the name of all resins.

5.2.2 Each link of the supply chain shall ensure the transfer of safety information, in order to ensure that the relevant information on the hazardous substances affecting food safety is traceable.

Appendix A

Plastic resin allowed to use and use requirements

A.1 Table A.1 specifies the plastic resin allowed for use AND the use requirements.

A.2 The specific migration total limit [SML (T)] and SML (T) grouping number in Appendix B of GB 9685-2016 apply to this standard.

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