

ICS 83.140.01



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

GB/T 38082-2025

Biodegradable plastic shopping bags

生物降解塑料购物袋

(English Translation)

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Foreword

This Standard was drafted in accordance with the rules given in GB/T 1.1-2009.

1 Scope

This Standard specifies the terms and definitions, requirements, test methods, inspection rules, packaging, transportation, and storage of biodegradable plastic shopping bags.

This Standard applies to plastic shopping bags made from films produced primarily from biodegradable plastic resins and processed through bag-making processes such as heat sealing or bonding, as well as to shopping bags made from biodegradable plastics combined with other materials.

This Standard does not apply to biodegradable plastic bags that are used solely for packaging and not for carrying, such as biodegradable roll bags (also known as tear bags or perforated bags).

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 2828.1, Sampling procedures for inspection by attributes - Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection GB/T 2918, Plastics - Standard atmospheres for conditioning and testing GB/T6672, Plastics film and sheeting -

Determination of thickness by mechanical scanning GB/T 6673, Determination of length and width of plastics film and sheeting GB/T 9345.1, Plastics - Determination of ash - Part 1: General methods GB/T 9639.1-2008, Plastics film and sheeting - Determination of impact resistance by the free-falling dart method - Part 1: Staircase methods GB/T 19276.1, Determination of the ultimate aerobic biodegradability of plastic materials in an aqueous medium - Method by measuring the oxygen demand in a closed respirometer GB/T 19276.2, Determination of the ultimate aerobic biodegradability of plastic materials in an aqueous medium - Method by analysis of evolved carbon dioxide GB/T 19277.1, Determination of the ultimate aerobic biodegradability of plastic materials under controlled composting conditions - Method by analysis of evolved carbon dioxide - Part 1: General method GB/T 19277.2, Determination of the ultimate aerobic biodegradability of plastic materials under controlled composting conditions - Method by analysis of evolved carbon dioxide - Part 2: Gravimetric measurement of carbon dioxide evolved in a laboratory-scale test GB/T 21660, General requirement for environmental protection, safety, identification and marking of plastic shopping bags QB/T 2358, Test methods for thermal sealing strength of plastic film packaging bag

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

biodegradable plastic shopping bags Bags made primarily from biodegradable resins, featuring a carrying structure, used in sales, service, and other settings for holding and carrying goods.

biodegradable plastic shopping bags used for food contacting Plastic shopping bags made from films produced primarily from various biodegradable resins and processed through bag-making processes such as heat sealing or bonding, which, under normal use conditions, may or are expected to come into contact with food or food additives, or whose components may migrate into food.

biodegradable plastic shopping bags not used for food contacting Plastic shopping bags made from films produced primarily from various biodegradable resins and processed through bag-making processes such as heat sealing or bonding, which do not come into direct contact with food or food additives.

4 Classification

Biodegradable plastic shopping bags can be divided into two categories based on whether they come into contact with food. biodegradable plastic shopping bags used for food contacting and biodegradable plastic shopping bags not used for food contacting.

5.1.1 Biodegradable plastic shopping bags not used for food contacting

Biodegradable plastic shopping bags not used for food contacting shall be clearly labeled as "Biodegradable plastic shopping bags not used for food contacting" on the plastic shopping bags and shall be marked with the name, standard number, specifications, nominal load-bearing capacity, material and composition, manufacturer, environmental protection statement, and safety statement in accordance with GB/T 21660.

5.1.2 Biodegradable plastic shopping bags used for food contacting

Biodegradable plastic shopping bags used for food contacting shall be clearly labeled as "Plastic shopping bags used for food contacting" on the plastic shopping bags and shall be marked with the name, standard number, thickness and size specifications, nominal load-bearing capacity, material and composition, manufacturer, environmental protection statement and safety statement in accordance with GB/T 21660.

5.2.1 Thickness and deviation

The thickness of biodegradable plastic shopping bags shall be no less than 0.015 mm.

The thickness limit deviation and average deviation shall conform to the provisions of Table 1.