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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 41378-2022

Plastics - Blow-moulded polypropylene containers for packaging of liquid food stuffs

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1.Structure and Drafting Rules of Standardization Documents"

drafted.

This document is equivalent to ISO 13106.2014 "Blow Molded Polypropylene Containers for Plastic Liquid Food Packaging".

The Chinese documents that have a consistent correspondence with the international documents normatively cited in this document are as follows.

---GB/T 2035-2008 Plastics terms and their definitions (ISO 472.1999, IDT);

---GB/T 2828.1-2012 Counting Sampling Inspection Procedure Part 1.Lot-by-Lot Inspection Retrieved by Acceptance Quality Limit (AQL)

Sampling plan (ISO 2859-1.1999, IDT);

---GB/T 2918-2018 Standard Environment for Conditioning and Testing of Plastic Specimens (ISO 291.2008, MOD);

---GB/T 2546.1-2006 Plastic polypropylene (PP) molding and extrusion materials - Part 1.Nomenclature system and classification basis

(ISO 1873-1.1995,MOD);

---GB/T 2546.2-2003 Plastic polypropylene (PP) molding and extrusion materials - Part 2.Sample preparation and performance determination

(ISO 1873-2.1997,MOD);

---GB/T 30102-2013 Guidelines for the recovery and recycling of plastic plastic waste (ISO 15270.2008, IDT).

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

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1 Scope

This document specifies the requirements for blow-molded polypropylene round-bottom containers with a capacity of not more than 2L (including 2L) for liquid food packaging. Book

The document also specifies quality tolerances, dimensional tolerances, sampling methods, test requirements and performance requirements for blow-molded polypropylene containers for liquid food packaging.

NOTE. It is not intended that polypropylene is the only polymer suitable for this application, as include high density polyethylene (PE-HD), polyethylene terephthalate (PET)

Other polymers, etc., are also suitable.

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, dated citations

documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to

this document.

ISO 472 Plastics Terms and Definitions (Plastics- Vocabulary)

ISO 1873-1 Plastics Polypropylene (PP) molding and extrusion materials - Part 1.Nomenclature system and classification basis 1) (Plastics-

specifications)

ISO 1873-2 Plastics Polypropylene (PP) molding and extrusion materials - Part 2.Specimen preparation and determination of properties 2) (Plastics-

ISO 2859-1 Count sampling inspection procedures - Part 1.Lot-by-lot inspection sampling plans retrieved by acceptance quality limit (AQL)

1) ISO 1873-1 was obsolete in.2015 and was replaced by ISO 19069-1 in the same year.

2) ISO 1873-2 was obsolete in.2016 and was replaced by ISO 19069-2 in the same year.

3 Terms and Definitions

The following terms and definitions apply to this document.

NOTE. For terms and definitions in this document, please refer to ISO 472.Containers produced using ISBM technology have a neck height (H) from the highest point of the container neck to

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The vertical distance of the bottom surface of the support ledge. The full capacity can also be determined by the method specified in Appendix B by using a specific volume test equipment. For bottles and loose

For mouth containers, the nominal capacity is about 90% of the full capacity.

3.1

extrusion blow-moulded container

A container formed by blowing the extruded parison of thermally softened thermoplastic against the inner wall of the mold by applying air pressure.

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