International Standard

ISO 16830

First edition
2025-01

Specification of bamboo drinking straws

Spécifications des pailles en bambou

Reference number
ISO 16830:2025(en)

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Published in Switzerland

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 296, *Bamboo and rattan*.

Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Introduction

More than 70 % of plastic products accumulate in landfills or are sloughed off in the natural environment as litter. As a result, this plastic can end up in the ocean and have a detrimental impact on the ecosystem. Plastic straws are one of the most widely used plastic products. For example, half a billion plastic straws are used and discarded every day by people in the United States alone.[4] In recent years, bans and restrictions on single-use plastics have come into force across the globe. Plastic straws have been singled out for bans as a result of the specific environmental problem they pose. Small, light and non-biodegradable plastic straws can easily be swept into the ocean and break down into microplastic particles. They can also be consumed by fish, seabirds and marine mammals, causing them harm and, in the case of fish, entering the food chain for humans.

Owing to its fast growth, short rotation, and high mechanical strength, bamboo is a very abundant renewable and biodegradable natural resource. The use of bamboo straws can help to alleviate the global pollution caused by plastic straw, and also provide significant economic, social, and ecological benefits. The low cost of bamboo straws manufactured with new technologies has a strong market competitiveness. This document has been developed to address the need for a standard on bamboo drinking straws, promote their use, and to contribute to the protection of the environment.

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Specification of bamboo drinking straws

1 Scope

This document specifies the requirements, test methods, handling, storage, packaging, and marking and labelling of bamboo drinking straws.

It is applicable to bamboo drinking straws:

— made of natural hollow-cylindrical-shape bamboo culms and branches;

— made by drilling holes on sticks processed from bamboo culm wall; and

— made by rolling bamboo veneer.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 2859-1, *Sampling procedures for inspection by attributes — Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection*

3 Terms and definitions

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

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
bamboo drinking straw
drinking straw that is made of bamboo

3.2
drilled bamboo straw
drinking straw that is made by drilling holes on sticks processed from bamboo culm wall

3.3
coiled bamboo straw
drinking straw that is made by rolling bamboo veneer

3.4
natural bamboo straw
drinking straw that is made of natural hollow-cylindrical-shape bamboo culm or branches

3.5
pointed straw
drinking straw with a bevelled end, intended for insertion through film-sealed containers

Note 1 to entry: See Figure 1.

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