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

GB/T 40306-2021

Packaging - Accessible design - Ease of opening

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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"

Drafting.

This document uses the redrafting law to amend and adopt ISO 17480.2015 "Accessible packaging design is easy to open".

The technical differences between this document and ISO 17480.2015 and the reasons are as follows.

---Regarding normative reference documents, this document has made adjustments with technical differences to adapt to my country's technical conditions and adjustments.

The situation is collectively reflected in Chapter 2 "Normative Reference Documents", with specific adjustments as follows.

* Replace ISO 21067 with GB/T 4122.1 (see Chapter 3).

This document has also made the following editorial changes.

---The scope was rewritten according to GB/T 1.1-2020, and the format was adjusted accordingly;

---Changed the description of references in "User-based Evaluation" (see 5.3);

---Changed the paragraph structure in "torque" (see A.2.1.1, A.2.1.2 in Appendix A);

---Deleted ISO 17480.2015 Figure C. 8-hole board test example;

--- Changed the number of the "dexterity change with age" figure in Appendix A (see Figure A.8);

---According to the provisions of GB/T 1.1-2020, the number of the appendix was changed (the original appendix A was changed to appendix G, the original appendix B was changed

to appendix C,

The original Appendix C was changed to Appendix A, the original Appendix E was changed to Appendix B, the original Appendix F was changed to Appendix E, and the original Appendix G was changed to Appendix F).

Introduction

Based on our aging society, people are more and more aware of the need for the elderly and the disabled to be adequate and possessive on an equal basis.

Effectively participate in social activities. The development of easy-to-open packaging for more people, including the elderly and the disabled, is the world's packaging industry facing

Common challenges.

Easy-to-open packaging adds more value to the usability of the packaged product. In addition to sealing performance, you also need to design packaging

Give more consideration to easy-to-open functions.

Although the degree of ease of opening may vary greatly depending on age, gender, physical ability and characteristics, etc., this document

The point of view of barrier-free design explains the key points to improve the ease of opening of the packaging.

The packaging is barrier-free and easy to open

1 Scope

This document specifies the accessible design, evaluation, and consistency of easy-to-open accessibility in packaging.

This document is applicable to the barrier-free design of commodity packaging that can be closed and cannot be closed without borrowing any other mechanical means.

2 Normative references

The contents of the following documents constitute the indispensable clauses of this document through normative references in the text. Among them, dated quotations

Only the version corresponding to that date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to

This document.

GB/T 4122.1 Packaging Terminology Part 1.Basics

3 Terms and definitions

The following terms and definitions defined in GB/T 4122.1 apply to this document.

3.1

Consumer packaging

At the retail point of consumer goods, it is a sales unit composed of packaged contents for end users and consumers.

3.2

Openability

The degree to which human factors (such as strength, dexterity and cognition) can easily obtain the contents of the package.

Note. Poorly openable packaging means that the contents are difficult to obtain.

3.3

Strength

The amount of force required to complete the expected task.

3.4

Dexterity

The extent to which the user can manipulate and process the object.

3.5

Cognition

The degree to which the user understands the accuracy of the target information.

3.6

Instrument-based evaluation

An evaluation method that uses measuring instruments to obtain quantitative data.

3.7

User-based evaluation method

By using or not using measuring instruments, it is an evaluation method to gain an in-depth understanding of the user's sensory, physical, and cognitive conditions.