

ISO/DTR 18607

ISO/TC 122/SC 4/~~AWG 5~~

Secretariat: SIS

Date: ~~2024-07-12~~2025-06-24

Packaging and the environment — ~~Guidebook for~~ — Information on environmentally conscious design of packaging based on the standards on packaging and the environment design

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview
~~DTR stage~~

ISO/DTR 18607

<https://standards.iteh.ai/catalog/standards/iso/7218b217-1043-4d6a-bb71-7de7d6f550dc/iso-dtr-18607>

Warning for WDs and CDs

This document is not an ISO International Standard. It is distributed for review and comment. It is subject to change without notice and may not be referred to as an International Standard.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

iTeh Standards
(<https://standards.itih.ai>)
Document Preview

ISO/DTR 18607

<https://standards.itih.ai/catalog/standards/iso/7218b217-1043-4d6a-bb71-7de7d6f550dc/iso-dtr-18607>

© ISO 2025

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: + 41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

iTeh Standards (<https://standards.iteh.ai>) Document Preview

ISO/DTR 18607

<https://standards.iteh.ai/catalog/standards/iso/7218b217-1043-4d6a-bb71-7de7d6f550dc/iso-dtr-18607>

Contents

Foreword..... v

Introduction vi

1 Scope..... 1

2 Normative references 1

3 Terms and definitions 1

4 Basic packaging specification and design, and relationship with standards on packaging and the environment..... 1

5 Assessment flow and procedure of the standards on packaging and the environment 3

5.1 General requirements of the standards on packaging and the environment 3

5.2 Optimization of packaging system 6

5.3 Reuse 9

5.4 Material recycling 12

5.5 Energy recovery 14

5.6 Organic recycling..... 17

5.7 Assessment report of ISO 18601..... 20

Annex A (informative) Practical explanation of packaging system optimization 21

Annex B (informative) Case study of packaging system optimization - Case liquid detergent container 27

Annex C (informative) Actual case study of optimization using the ISO 18602 checklist 36

Annex D (informative) Self-assessment case study of environmentally conscious packaging design 45

Annex E (informative) Examples of assessment standards 65

Annex F (informative) Packaging system description 67

Bibliography..... 72

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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 ~~documents~~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).

~~Attention is drawn~~ISO draws attention to the possibility that ~~some of the elements~~implementation of this document may ~~be involve~~ the ~~subject~~use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights. ~~Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see).~~

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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 122, *Packaging*, Subcommittee SC 4, *Packaging and the environment*.

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.

Introduction

In 2013, six standards ~~(i.e. ISO 18601 to 18606)~~, and two ~~Technical Reports (technical reports, ISO/TR 16218 and ISO/TR 17098)~~, were issued as ~~international standards~~ISO deliverables on packaging and the environment ~~(hereinafter collectively referred to as the standards on packaging and the environment)~~. Thereafter, national standards corresponding to the six standards ISO 18601 to ISO 18606, which are the main and important part of the deliverables, hereinafter collectively referred to as the standards on packaging and the environment, were issued in some countries, while, in Europe, European ~~standards (EN for European Norm) which~~Standards (EN) served as the basis for establishing the packaging and environment standards. Under these circumstances, the standards on packaging and the environment are expected to work as international standards to be used globally.

The environmentally conscious packaging design principles laid in the standards on packaging and the environment require environmental consideration while ensuring the inherent packaging functions be maintained. For example, if the packaging reduction principle were sought excessively, it will not be possible to maintain the basic packaging function of protecting the packaged product. This would rather result in more serious burden to be inflicted on the environment.

The aim of this document is to support stakeholders in pursuing their efforts for environmentally conscious packaging design and manufacture of packaging based on the standards on packaging and the environment, and increased understanding and promotion of such design principles. Specifically, with ISO 18602, it will explain these factors clearly, using real examples. You can see the layout of this document in Figure 1~~Figure 1.~~

Free Standards
(<https://standards.iteh.ai>)
Document Preview

ISO/DTR 18607

<https://standards.iteh.ai/catalog/standards/iso/7218b217-1043-4d6a-bb71-7de7d6f550dc/iso-dtr-18607>

