



**International
Standard**

ISO 7683

**Design criteria and test methods for
removable shrink labels applied to
PET bottles**

*Critères de conception et méthodes d'essai pour les étiquettes
rétractables et détachables appliquées sur les bouteilles en PET*

**First edition
2024-10**

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

[ISO 7683:2024](https://standards.iteh.ai/catalog/standards/iso/b152d0be-8dc6-4534-bdc9-b69a9c397947/iso-7683-2024)

<https://standards.iteh.ai/catalog/standards/iso/b152d0be-8dc6-4534-bdc9-b69a9c397947/iso-7683-2024>

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

[ISO 7683:2024](https://standards.iteh.ai/catalog/standards/iso/b152d0be-8dc6-4534-bdc9-b69a9c397947/iso-7683-2024)

<https://standards.iteh.ai/catalog/standards/iso/b152d0be-8dc6-4534-bdc9-b69a9c397947/iso-7683-2024>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2024

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

Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Design criteria	2
4.1 General.....	2
4.2 Design criteria.....	3
4.2.1 Visual indications of the starting point of separation.....	3
4.2.2 Finger tab or initiation cuts.....	3
4.2.3 Label material.....	3
4.2.4 Shape of bottle.....	4
4.2.5 Size of holes and spacing between holes.....	4
4.2.6 Perforated line.....	4
4.2.7 Improving removability.....	4
5 Test methods for removability	4
5.1 Sample and panel preparation.....	4
5.2 Test procedure for removability.....	4
5.2.1 General.....	4
5.2.2 Test method for ease of identifying the starting point of separation on a shrink label.....	5
5.2.3 Test method for ease of separation of a shrink label.....	5
5.3 Evaluation method for removability of a shrink label.....	6
6 Test report	6
Annex A (informative) Example test report for ease of removability of shrink labels	7
Bibliography	8

[ISO 7683:2024](https://standards.iteh.ai/catalog/standards/iso/b152d0be-8dc6-4534-bdc9-b69a9c397947/iso-7683-2024)

<https://standards.iteh.ai/catalog/standards/iso/b152d0be-8dc6-4534-bdc9-b69a9c397947/iso-7683-2024>

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 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).

ISO draws attention to the possibility that the implementation of this document may involve the 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.

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 3, *Performance requirements and tests for means of packaging, packages and unit loads (as required by ISO/TC 122)*.

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.

ISO 7683:2024

<https://standards.iteh.ai/catalog/standards/iso/b152d0be-8dc6-4534-bdc9-b69a9c397947/iso-7683-2024>

Introduction

PET bottles can be used as recycled materials for making high value-added recycled products. For effective recycling, the recycling facility will potentially need to separate the label from the bottle according to the manufacturer's advice. For this purpose, a structure such as the perforated line on the shrink labels is provided to remove them easily from bottles by consumers.

Depending on the shape of the bottle, the material and thickness of the label, the size of the perforation holes and the spacing between the holes, it can still be difficult for the consumer to separate the shrink label from the bottle, even though the perforated line on the shrink label is provided.

The aim of this document is to help packaging suppliers in designing their PET bottles and shrink labels, such that a broad range of consumers find it easy to separate the shrink label from the PET bottle, thereby encouraging the effective recycling of PET bottles.

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

[ISO 7683:2024](https://standards.iteh.ai/catalog/standards/iso/b152d0be-8dc6-4534-bdc9-b69a9c397947/iso-7683-2024)

<https://standards.iteh.ai/catalog/standards/iso/b152d0be-8dc6-4534-bdc9-b69a9c397947/iso-7683-2024>

