INTERNATIONAL STANDARD

ISO 8124-2

Fourth edition 2023-05

Safety of toys —

Sr., Part 2: Flammability

des 2: Infla. Sécurité des jouets —



Reference number ISO 8124-2:2023(E)



© ISO 2023

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

Forew	ord		v
Intro	luction	Ω	vi
1	Scope		1
2	Norm	ative references	1
3		s and definitions	
4		irements	
т	4.1	General	
	4.2	Toys to be worn on the head (see <u>A.3</u>)	
		4.2.1 General	4
		4.2.2 Beards, moustaches, wigs, etc. made from pile or flowing elements which protrude 50 mm or more from the surface of the toy	Л
		4.2.3 Beards, moustaches, wigs, etc. made from pile or flowing elements which	т
		protrude less than 50 mm from the surface of the toy	5
		4.2.4 Full or partial moulded head masks	5
		4.2.5 Toys to be worn on the head (except those covered by $4.2.2$ and $4.2.3$),	
		hoods and headdresses, including upward-protruding items and masks	
		not covered by <u>4.2.4</u> which partially or fully cover the head (e.g. fabric and paperboard masks, eye masks, face masks), but excluding those items	
		covered by 4.3	5
	4.3	Toy disguise costumes and toys intended to be worn by a child in play	
	4.4	Toys intended to be entered by a child	5
	4.5	Soft-filled toys	
5	Test r	nethods	
	5.1	General	
		5.1.1 Test burner	
		5.1.2 Conditioning and test chamber.5.1.3 Test flame.	6
	5.2	Test relating to beards, moustaches, wigs, etc. made from pile or flowing elements	0
	5.2	which protrude 50 mm or more from the surface of the toy	7
		5.2.1 Test flame	7
		5.2.2 Test burner position	7
	F 0	5.2.3 Test performance	7
	5.3	Test relating to beards, moustaches, wigs, etc. made from pile or flowing elements which protrude less than 50 mm from the surface of the toy, and full or partial	
		moulded head masks	7
		5.3.1 Test flame	
		5.3.2 Test burner position	
		5.3.3 Test performance	7
	5.4	Test relating to toys to be worn on the head $(4.2.5)$, hoods and headdresses,	
		including upward-protruding items and masks not covered by <u>4.2.4</u> which partially or fully cover the head (e.g. fabric and paperboard masks, eye masks,	
		face masks), toy disguise costumes and toys intended to be worn or toys intended	
		to be entered by a child (See <u>A.7</u>)	8
		5.4.1 Preparation of test specimen	
		5.4.2 Holding and positioning the test specimen	
		5.4.3 Test flame	
		5.4.4 Test burner position5.4.5 Test performance	
		5.4.6 Results	
	5.5	Test for soft-filled toys and certain soft-filled parts of toy disguise costumes	
		5.5.1 Test flame	. 14
		5.5.2 Test burner position	. 14

ex A (informative) Background and rationale for this document		. 14 . 15
ex B (informative) Significant technical changes between the	nis document and the	
previous edition		
ography		.29
0.		
0		
C,		
4		
3		
0.		
\odot		
· O·		
	Q.r	
	3	
	Č.	
	U,	
)

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 181, Safety of toys.

This fourth edition cancels and replaces the third edition (ISO 8124-2:2014), which has been technically revised.

A list of the main technical changes between this document and the previous edition is given in <u>Annex B</u>.

A list of all parts in the ISO 8124 series can be found on the ISO website.

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 <u>www.iso.org/members.html</u>.

2000 12000 15

Introduction

This document is largely based upon an existing European standard (EN 71-2).

Conformity with the requirements of this document will minimize potential hazards associated with toys resulting from their use in their intended play modes (normal use) as well as unintended play modes (reasonably foreseeable abuse).

This document will not, nor is it intended to, eliminate parental responsibility in the appropriate selection of toys. In addition, this document will not eliminate the need for parental supervision in situations where children of various ages can have access to the same toy(s).

Although <u>Annex A</u> is for information purposes only, it is crucial for the correct interpretation of this document.

A list of the main technical changes between this document and the previous edition is given in <u>Annex B</u>.

ility to broke way on the one of Additional requirements for the flammability of electric toys are described in IEC 62115.

Safety of toys —

Part 2: Flammability

1 Scope

This document specifies the categories of flammable materials that are prohibited in all toys, and requirements concerning flammability of certain toys when they are subjected to a small source of ignition.

The test methods described in <u>Clause 5</u> are used for the purposes of determining the flammability of toys under the particular test conditions specified. The test results thus obtained cannot be considered as providing an overall indication of the potential fire hazard of toys or materials when subjected to other sources of ignition.

This document includes general requirements relating to all toys and specific requirements and test methods relating to the following toys, which are considered as being those presenting the greatest hazard:

- toys intended to be worn on the head, such as beards, moustaches and wigs made from pile or flowing elements, masks, hoods and headdresses; however, paper and paperboard hats without embellishments or attachments are excluded;
- toy disguise costumes and toys intended to be worn by a child in play;
- toys intended to be entered by a child and constructed from textiles and/or polymer sheets and films;
- soft-filled toys (see <u>A.6</u>).

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 2431, Paints and varnishes — Determination of flow time by use of flow cups

ISO 6941:2003, Textile fabrics — Burning behaviour — Measurement of flame spread properties of vertically oriented specimens

EN 71-13, Safety of toys - Part 13: Olfactory board games, cosmetic kits and gustative games

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 <u>https://www.iso.org/obp</u>
- IEC Electropedia: available at <u>https://www.electropedia.org/</u>