

Irish Standard I.S. EN IEC 60311:2019

Electric irons for household or similar use

- Methods for measuring performance

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I.S. EN IEC 60311:2019

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EN IEC 60311

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2019

ICS 97.060

Supersedes EN 60311:2003 and all of its amendments and corrigenda (if any)

English Version

Electric irons for household or similar use - Methods for measuring performance (IEC 60311:2016)

Fers à repasser électriques pour usage domestique ou analogue - Méthodes de mesure de l'aptitude à la fonction (IEC 60311:2016)

Elektrische Bügeleisen für Haushalt und ähnliche Zwecke -Verfahren zur Messung der Gebrauchseigenschaften (IEC 60311:2016)

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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 60311:2019 (E)

European foreword

The text of document 59L/116/CDV, future edition 5 of IEC 60311, prepared by SC 59L "Small household appliances" of IEC/TC 59 "Performance of household and similar electrical appliances" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60311:2019.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2022-10-11

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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60454-3-2 NOTE Harmonized as EN 60454-3-2

ISO 3758 NOTE Harmonized as EN ISO 3758

EN IEC 60311:2019 (E)

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

Publication	<u>Year</u>	Title EN/HD	<u>Year</u>
IEC 60051-1	-	EN 60051-	1 -
IEC 60734	-	Household electrical appliances -EN 60734	-
		Performance - Water for testing	
ISO 105-F01	-	Textiles Tests for colour fastness	-
		Part_F01: Specification for wool adjacent	
		fabric	
ISO 105-F02	-	Textiles Tests for colour fastness	-
		Part_F02: Specification for cotton and	
		viscose adjacent fabrics	
ISO 105-F03	-	Textiles Tests for colour fastness	_
		Part_F03: Specification for polyamide	
		adjacent fabric	
ISO 1518-1	_	EN ISO 15	18_1 _
	_		
ISO 2409			09 2013
ISO 3801	-	Textiles; Woven fabrics; Determination of-	-
		mass per unit length and mass per unit	
		area	
ISO 6330		EN ISO 633	30 2012
ISO 7211-2 (mod)	_	Textiles - Woven fabrics - Construction -EN 1049-2	_
, ,		Methods of analysis Part 2:	
		Determination of number of threads per	
		unit length	
ISO 9073-2		Textiles Test methods for nonwovensEN ISO 90	72.2
130 9073-2	-		13-2 -
100 1000 1 1		Part 2: Determination of thickness	
ISO 13934-1	-	Textiles Tensile properties of fabrics	-
		Part_1: Determination of maximum force	
		and elongation at maximum force using the	
		strip method	

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IEC 60311

Edition 5.0 2016-12

INTERNATIONAL STANDARD

NORME INTERNATIONALE



Electric irons for household or similar use – Methods for measuring performance

Fers à repasser électriques pour usage domestique ou analogue – Méthodes de mesure de l'aptitude à la fonction





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IEC 60311

Edition 5.0 2016-12

INTERNATIONAL STANDARD

NORME INTERNATIONALE



Electric irons for household or similar use – Methods for measuring performance

Fers à repasser électriques pour usage domestique ou analogue – Méthodes de mesure de l'aptitude à la fonction

INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

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ELECTRIC IRONS FOR HOUSEHOLD OR SIMILAR USE – METHODS FOR MEASURING PERFORMANCE

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International Standard IEC 60311 has been prepared by subcommittee 59L: Small household appliance, of IEC technical committee 59: Performance of household and similar electrical appliances.

This fifth edition cancels and replaces the fourth edition published in 2002, Amendment 1:2005 and Amendment 2:2009. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) 5.3: introduction of clarifications on voltage and frequency to be applied for the tests;
- b) 5.12: introduction of an anti-circumvention subclause;
- c) 9.2.3: clarification on the procedure for measuring steaming rate;
- d) 14.1 and 14.2: clarification on type of water used for the tests;
- e) Figure 2: clarifications and alignment with the relevant formula.

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The text of this International Standard is based on the following documents:

CDV	Report on voting
59L/116/CDV	59L/121/RVC

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

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• notes: in small roman type

other texts: in roman type

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ELECTRIC IRONS FOR HOUSEHOLD OR SIMILAR USE – METHODS FOR MEASURING PERFORMANCE

1 Scope

This International Standard applies to electric irons for household or similar use.

The purpose of this document is to state and define the principal performance characteristics of electric irons for household or similar use which are of interest to the user and to describe the standard methods for measuring these characteristics.

Electric irons covered by this standard include

- dry irons;
- steam irons;
- vented steam irons with motor pump;
- spray irons;
- steam irons with separate water reservoir or boiler/generator having a capacity not exceeding 5 l.

This document is concerned neither with safety nor with performance requirements.

NOTE The primary characteristic to be taken into account in assessing the performance of an electric iron is its basic ability to produce a smooth finish to textile materials, without risk of scorching or other damage. It has not proved possible to devise a single method which will measure this characteristic in a consistently reproducible way and measurements have therefore been included to check certain factors, such as the temperature of the sole-plate at the mid-point, sole-plate temperature distribution, etc., which affect the basic characteristic. In evaluating the results, while a very exceptional result in any one of them may significantly affect performance, there is considerable latitude in the combination of results which will give satisfactory ironing performance, and too much significance is not given to minor differences in any one result.

2 Normative references

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IEC 60051-1, Direct acting indicating analogue electrical measuring instruments and their accessories – Part 1: Definitions and general requirements common to all parts

IEC 60734, Household electrical applicances – Performance – Hard water for testing

ISO 105-F01, Textiles - Test for colour fastness - Specification for wool adjacent fabric

ISO 105–F02, Textiles – Test for colour fastness – Specification for cotton and viscose adjacent fabrics.

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