INTERNATIONAL STANDARD

IEC 61855

First edition 2003-01

Household electrical hair care appliances – Methods of measuring the performance

Appareils électrodomestiques destinés aux soins des cheveux – Méthodes de mesure de l'aptitude à la fonction



© IEC 2003 — Copyright - all rights reserved

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Electrotechnical Commission, 3, rue de Varembé, PO Box 131, CH-1211 Geneva 20, Switzerland Telephone: +41 22 919 02 11 Telefax: +41 22 919 03 00 E-mail: inmail@iec.ch Web: www.iec.ch



PRICE CODE

CONTENTS

FO	FOREWORD		3	
IN	NTRODUCTION		4	
1	1 Scope		5	
2	Normative references	lormative references		
3	B Definitions	Definitions5		
4	List of measurements and tests	List of measurements and tests6		
5	General conditions for measurements		7	
	5.1 General		7	
	5.2 Test room		7	
	5.3 Power supply		, 7	
	5.4 Steady conditions		7	
	5.5 Thermocouples			
6	6 Measurements			
	6.1 Mass of the appliance6.2 Length of the flexible cord			
	6.2 Length of the flexible cord	, , , , , , , , , , , , , , , , , , ,		
	6.3 Power Input			
	6.4 Heating-up times			
	6.6 Air flow of hand-held hairdrye	rs and hairstyling appliances with warm air		
	6.7 Drying rate	is and namelying appliances with warm an	10	
	6.8 Attachment of accessories		12	
	6.9 Drop test		12	
7		I noise		
8	B Features	<u></u>	13	
	8.1 Control settings		13	
	8.2 Accessories		13	
	8.3 Additional features		13	
9	Instructions for use		13	
An	Annex A (informative) Additional inform	nation	19	
An	Annex B (informative) Test Cloth		20	
Bib	Bibliography		21	
		nce D _d		
Fig	Figure 2 – Temperature measuring devi	ce (based on UL 859)	14	
Fig	igure 3 – Attachment of the thermocou	ples	15	
Fig	igure 4 – Distance for temperature me	asurement	16	
Fig	igure 5 – Curling appliance, position o	f the measuring points	17	
Fig	igure 6 – Test equipment for measurin	g the drying rate	18	

INTERNATIONAL ELECTROTECHNICAL COMMISSION

HOUSEHOLD ELECTRICAL HAIR CARE APPLIANCES – METHODS FOR MEASURING THE PERFORMANCE

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters express as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be need responsible for identifying any or all such patent rights.

International Standard IEC 61855 has been prepared by IEC technical committee 59: Performance of household electrical appliances.

The text of this standard is based on the following documents:

FDIS	Report on voting
59/307/FDIS	59/318/RVD

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

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

The committee has decided that the contents of this publication will remain unchanged until 2005-04. At this date, the publication will be

- reconfirmed;
- · withdrawn;
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

61855 © IEC:2003(E)

INTRODUCTION

-4-

This standard does not deal with hair care appliances with radiant heating or with helmet dryers (see Scope) for the following reasons:

- the test methods are likely to be complicated and expensive and they might not be sufficiently repeatable;
- suitable and or proven test methods are not known at present;
- developing of test methods for these appliances will incur considerable costs;
- the market shares of these appliances are rather small.

National Committees who consider that hair care appliances with radiant heating and helmet dryers should be included into maintainance activities are requested to submit proposals suitable for the corresponding test method.



HOUSEHOLD ELECTRICAL HAIR CARE APPLIANCES – METHODS FOR MEASURING THE PERFORMANCE

1 Scope

This International Standard applies to electrical appliances for household and similar use for drying and styling hair (including their accessories).

This standard defines the main performance characteristics that are of interest to the user and specifies methods of measuring these characteristics.

The measuring procedures are developed for comparable tests.

This standard does not specify requirements for performance.

This standard does not cover hair care appliances with radiant heating, helmet-type dryers or cutting devices.

NOTE 1 This standard does not deal with safety requirements (IEC 60335-2-23).

NOTE 2 Due to the influence of environmental conditions, variations in time, origin of test materials and proficiency of the operator, most of the described test methods will give more reliable results when applied for comparative testing of a number of appliances at the same time, in the same laboratory and by the same operator.

2 Normative references

The following referenced documents are indispensable for the application 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.

IEC 60584-2, Thermocouples - Part 2: Tolerances

IEC 60704-2-9, Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 2-9: Particular requirements for electrical hair care appliances¹

IEC 61254, Electric shavers for household use – Methods for measuring the performance

IEC/TR 61592, Household electrical appliances – Guidelines for consumer panel testing

ISO 2267:1986, Surface active agents – Evaluation of certain effects of laundering- Methods of preparation and use of unsoiled cotton control cloth

¹ To be published.