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Interested committees:

Title: BS EN IEC 62321-15 ED1 Determination of certain substances in electrotechnical products

Part 15: Tetrabromobisphenol a (TBBPA) in plastics by gas chromatography-mass spectrometry (GC-MS) and liquid chromatography-mass spectrometry (LC-MS)

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/Figure/ Table/Note	Type of comment	Commend (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



111/789/CD

COMMITTEE DRAFT (CD)

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111/720/NP, 111/765A/RVN

IEC TC 111 : ENVIRONMENTAL STANDARDIZATION FOR ELECTRICAL AND ELECTRONIC PRODUCTS AND SYSTEMS

SECRETARIAT:

Italy

SECRETARY:

Mr Alfonso Sturchio

OF INTEREST TO THE FOLLOWING COMMITTEES:

TC 2,TC 9,TC 18,TC 20,TC 21,TC 23,TC 34,SC 34D,TC 59,TC 62,SC 65B,TC 80,TC 82,TC 88,TC 91,TC 100,TC 121,TC 124,TC 125

HORIZONTAL FUNCTION(S):

ASPECTS CONCERNED:

Environment

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TITLE:

DETERMINATION OF CERTAIN SUBSTANCES IN ELECTROTECHNICAL PRODUCTS — Part 15: Tetrabromobisphenol A (TBBPA) in plastics by gas chromatography-mass spectrometry (GC-MS) and liquid chromatography-mass spectrometry (LC-MS)

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1		
2		
3	FOREWORD	4
4	INTRODUCTION	6
5	1 Scope	7
6	2 Normative references	7
7	3 Definitions	7
8	3.1 Terms and definitions	7
9	3.1.1 Plastic	8
10	3.1.2 Polymer	8
11	3.1.3 Blank	8
12	3.2 Abbreviated terms	8
13	4 Principle	9
14	5 Reagents and materials	9
15	6 Apparatus	9
16	6.1 GC-MS method	9
17	6.2 LC-MS Method	10
18	7 Sampling	10
19	8 Procedure	11
20	8.1 General instructions for the analysis	11
21	8.2 Sample preparation	11
22	8.2.1 GC-MS method	11
23	8.3 Instrumental parameters	12
24	8.3.1 GC-MS method	12
25	8.3.2 LC-MS method	13
26	8.4 Calibrants	14
27	8.5 Calibration	14
28	8.5.1 General	14
29	8.5.2 Standard solutions	14
30	9 Calculation of TBBPA concentration	16
31	9.1 General	16
32	9.2 Calculation	16
33	10 Precision	18
34	10.1 GC-MS method	18
35	10.2 LC-MS method	19
36	11 Quality assurance and quality control	19
37	11.1 Performance	19
38	11.2 Internal control samples and blanks	21
39	11.3 Method detection limit and reporting limit	21
40	12 Test report	22
41	Annex A (informative) Examples of chromatograms at suggested conditions	23
42	Annex B (informative) Results of international interlaboratory study of Pre-IIS-15	25
43	Bibliography	26
44		

Figure A. 1 - Total ion chromatogram of TBBPA by GC-MS analysis 23

Figure A. 2 - Mass spectrum of TBBPA by GC-MS analysis..... 23

Figure A. 3 - Total ion chromatogram of TBBPA by LC-MS analysis 24

Figure A. 4 - Mass spectrum of TBBPA by LC-MS analysis 24

Error! Bookmark not defined.Table 1 - Measurement conditions of GC-MS 12

Table 2 - Reference masses for the quantification of TBBPA..... 13

Table 3 - Measurement condition of LC-MS..... 13

Table 4 - Commercially available TBBPA reference materials..... 14

Table 5 - Calibration solutions of TBBPA..... 14

Table 6 - Pre-IIS 15 repeatability and reproducibility (GC-MS) 18

Table 7 - Pre– IIS 15 repeatability and reproducibility (LC-MS) 19

Table B.1 - Statistical data for GC-MS and LC-MS 25

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**DETERMINATION OF CERTAIN SUBSTANCES IN
ELECTROTECHNICAL PRODUCTS —****Part 15: Tetrabromobisphenol A (TBBPA) in plastics by gas
chromatography mass spectrometry (GC-MS) and liquid chromatography
mass spectrometry (LC-MS)****FOREWORD**

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118 International Standard IEC 62321-15 has been prepared by IEC technical committee 111: Environmental
119 standardization for electrical and electronic products and systems.

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

FDIS Report on voting	Report on voting
XX/XX/FDIS	XX/XX/RVD

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

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

124 The committee has decided that the contents of this document will remain unchanged until the stability
125 date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific
126 document. At this date, the document will be

- 127 – reconfirmed,
- 128 – withdrawn,
- 129 – replaced by a revised edition, or
- 130 – amended.

131 The National Committees are requested to note that for this document the stability date is 2030.

132 THIS TEXT IS INCLUDED FOR THE INFORMATION OF THE NATIONAL COMMITTEES AND WILL BE DELETED AT THE
133 PUBLICATION STAGE.

134

INTRODUCTION

The widespread use of electrotechnical products has drawn increased attention to their impact on the environment. In many countries this has resulted in the adoption of regulations affecting wastes, substances and energy use of electrotechnical products.

The use of certain substances in electrotechnical products is a source of concern in current and proposed regional legislation.

The purpose of the IEC 62321 series is therefore to provide test methods that will allow the electrotechnical industry to determine the levels of certain substances of concern in electrotechnical products on a consistent global basis.

This standard describes a test method for the determination of Tetrakisphenol A (TBBPA) in electrotechnical products.

WARNING — Persons using this International Standard should be familiar with normal laboratory practice. This International Standard does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user to establish appropriate safety and health practices and to ensure compliance with any national regulatory conditions

DETERMINATION OF CERTAIN SUBSTANCES IN ELECTROTECHNICAL PRODUCTS —

Part 15: Tetrabromobisphenol A (TBBPA) in plastics by gas chromatography mass spectrometry (GC-MS) and liquid chromatography mass spectrometry (LC-MS)

1 Scope

This International Standard specifies the technique for the determination of tetrabromobisphenol A (TBBPA) in plastics of electrotechnical products.

The gas chromatography mass spectrometry (GC-MS) and liquid chromatography mass spectrometry (LC-MS) test methods are described in the normative part of this standard. The GC-MS and LC-MS methods are suitable for the determination of tetrabromobisphenol A (TBBPA) in plastics of electrotechnical products.

These test methods have been evaluated for use with EPS (expanded polystyrene foam), XPS (extruded polystyrene foam), PP (Polypropylene), Epoxy and ABS (acrylonitrile butadiene styrene) within concentrations ranging from xxxx mg/kg to xxxx. The use of these methods for other types of materials or concentration ranges outside those specified below have not been evaluated.

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 62321-1, *Determination of certain substances in electrotechnical products - Part 1: Introduction and overview*

IEC 62321-2, *Determination of certain substances in electrotechnical products - Part 2: Disassembly, disjunction and mechanical sample preparation*

3 Definitions

3.1 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org>
- ISO Online browsing platform: available at <https://www.iso.org/obp>