



NSAI
Standards

Irish Standard
I.S. EN IEC 61189-2-630:2018

Test methods for electrical materials,
printed board and other interconnection
structures and assemblies - Part 2-630:
Test methods for materials for
interconnection structures - Moisture
absorption after pressure vessel
conditioning

I.S. EN IEC 61189-2-630:2018

Incorporating amendments/corrigenda/National Annexes issued since publication:

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National Foreword

I.S. EN IEC 61189-2-630:2018 is the adopted Irish version of the European Document EN IEC 61189-2-630:2018, Test methods for electrical materials, printed board and other interconnection structures and assemblies - Part 2-630: Test methods for materials for interconnection structures - Moisture absorption after pressure vessel conditioning

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EUROPEAN STANDARD

EN IEC 61189-2-630

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2018

ICS 31.180

English Version

Test methods for electrical materials, printed board and other interconnection structures and assemblies - Part 2-630: Test methods for materials for interconnection structures - Moisture absorption after pressure vessel conditioning
(IEC 61189-2-630:2018)

Méthodes d'essai pour les matériaux électriques, les cartes imprimées et autres structures d'interconnexion et ensembles - Partie 2-630: Méthodes d'essai des matériaux pour structures d'interconnexion - Absorption d'humidité après conditionnement dans un récipient sous pression
(IEC 61189-2-630:2018)

Prüfverfahren für Elektromaterialien, Leiterplatten und andere Verbindungsstrukturen und Baugruppen - Teil 2-630: Prüfverfahren für Materialien für Verbindungsstrukturen - Feuchteaufnahme nach Druckbehälterbeanspruchung
(IEC 61189-2-630:2018)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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

EN IEC 61189-2-630:2018 (E)

European foreword

The text of document 91/1471/CDV, future edition 1 of IEC 61189-2-630, prepared by IEC/TC 91 "Electronics assembly technology" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61189-2-630:2018.

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 (dop) 2019-04-10
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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|--|--------------|-------------|
| IEC 60194 | - | Printed board design, manufacture and-assembly - Terms and definitions | | - |

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IEC 61189-2-630

Edition 1.0 2018-06

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Test methods for electrical materials, printed board and other interconnection structures and assemblies –

Part 2-630: Test methods for materials for interconnection structures – Moisture absorption after pressure vessel conditioning

Méthodes d'essai pour les matériaux électriques, les cartes imprimées et autres structures d'interconnexion et ensembles –

Partie 2-630: Méthodes d'essai des matériaux pour structures d'interconnexion – Absorption d'humidité après conditionnement dans un récipient sous pression





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IEC 61189-2-630

Edition 1.0 2018-06

INTERNATIONAL STANDARD

NORME INTERNATIONALE

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Part 2-630: Test methods for materials for interconnection structures – Moisture absorption after pressure vessel conditioning

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Partie 2-630: Méthodes d'essai des matériaux pour structures d'interconnexion – Absorption d'humidité après conditionnement dans un récipient sous pression

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**TEST METHODS FOR ELECTRICAL MATERIALS, PRINTED BOARD AND
OTHER INTERCONNECTION STRUCTURES AND ASSEMBLIES –****Part 2-630: Test methods for materials for interconnection structures –
Moisture absorption after pressure vessel conditioning**

FOREWORD

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International Standard IEC 61189-2-630 has been prepared by IEC technical committee 91: Electronics assembly technology

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

| | |
|-------------|------------------|
| CDV | Report on voting |
| 91/1471/CDV | 91/1503/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.

A list of all parts in the IEC 61189 series, published under the general title *Test methods for electrical materials, printed board and other interconnection structures and assemblies*, can be found on the IEC website.

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- withdrawn,
- replaced by a revised edition, or
- amended.

TEST METHODS FOR ELECTRICAL MATERIALS, PRINTED BOARD AND OTHER INTERCONNECTION STRUCTURES AND ASSEMBLIES –

Part 2-630: Test methods for materials for interconnection structures – Moisture absorption after pressure vessel conditioning

1 Scope

This document specifies a test method to determine the amount of water absorbed by metal-clad laminates after conditioning in a pressure vessel for 1 h, 2 h, 3 h, 4 h or 5 h.

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.

IEC 60194, *Printed board design, manufacture and assembly – Terms and definitions*.

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60194 apply.

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

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

4 Preparation of test specimens

- a) The specimens shall be etched using any appropriate method.
- b) The edges of the test specimen shall be sanded smooth after etching.

5 Test specimens

- a) Specimens shall be copper-clad laminate.
- b) Specimens shall be cut not less than 25 mm from the edge of the sheet.
- c) A minimum of four specimens shall be tested.
- d) The test specimens used in this test shall be 50 mm ± 0,5 mm long by 50 mm ± 0,5 mm wide by the thickness of the material (unless otherwise specified).
- e) The test specimens shall be etched to remove the copper foil using any appropriate method.

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