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NSAI Standards

Irish Standard
I.S. EN ISO 16012:2015

Plastics - Determination of linear dimensions of test specimens

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This document is based on:	*Published:*
EN ISO 16012:2015	2015-12-02

This document was published under the authority of the NSAI and comes into effect on:	ICS number:
2015-12-20	NOTE: If blank see CEN/CENELEC cover page

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 16012

December 2015

ICS 83.080.01

English Version

Plastics - Determination of linear dimensions of test specimens (ISO 16012:2015)

Plastiques - Détermination des dimensions linéaires des éprouvettes (ISO 16012:2015)

Kunststoffe - Bestimmung der linearen Maße von Probekörpern (ISO 16012:2015)

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European foreword

The text of ISO 16012:2015 has been prepared by Technical Committee ISO/TC 61 "Plastics" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 16012:2015 by Technical Committee CEN/TC 249 "Plastics" the secretariat of which is held by NBN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2016, and conflicting national standards shall be withdrawn at the latest by June 2016.

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INTERNATIONAL STANDARD

ISO 16012

Second edition
2015-03-15

Plastics — Determination of linear dimensions of test specimens

Plastiques — Détermination des dimensions linéaires des éprouvettes

Reference number
ISO 16012:2015(E)

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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 documents 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).

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The committee responsible for this document is ISO/TC 61, *Plastics*, Subcommittee SC 2, *Mechanical properties*.

This second edition cancels and replaces the first edition (ISO 16012:2004), which has been technically revised. It also incorporates the Technical Corrigendum ISO 16012:2004/Cor.1:2005.

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Plastics — Determination of linear dimensions of test specimens

1 Scope

This International Standard specifies measuring equipment and procedures for the determination of the linear dimensions of rigid plastics test specimens. It is applicable to test specimens described in ISO 20753 but can also be used for other test specimens, and to thicknesses typically in the range 0,4 mm ≤ h ≤ 6,4 mm.

NOTE Determination of dimensions of test specimen made of semi-rigid materials (70 MPa ≤ E ≤ 700 MPa) can follow ISO 23529:2010[1].

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 291, *Plastics — Standard atmospheres for conditioning and testing*

ISO 463, *Geometrical Product Specifications (GPS) — Dimensional measuring equipment — Design and metrological characteristics of mechanical dial gauges*

ISO 3611, *Geometrical product specifications (GPS) — Dimensional measuring equipment: Micrometers for external measurements — Design and metrological characteristics*

ISO 3650, *Geometrical Product Specifications (GPS) — Length standards — Gauge blocks*

ISO 9493, *Geometrical product specifications (GPS) — Dimensional measuring equipment: Dial test indicators (lever type) — Design and metrological characteristics*

ISO 13102, *Geometrical product specifications (GPS) — Dimensional measuring equipment: Electronic digital-indicator gauge — Design and metrological characteristics*

ISO 13385-1, *Geometrical product specifications (GPS) — Dimensional measuring equipment — Part 1: Callipers; Design and metrological characteristics*

ISO 20753, *Plastics — Test specimens*

3 Terms and definitions

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

3.1
linear dimension
shortest distance measured with the equipment described in Clause 4, between any two points selected on the plastics specimen

3.2
thickness
shorter dimension of the (ideally) rectangular cross section perpendicular to the longitudinal direction of a bar test specimen

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