

Irish Standard I.S. EN ISO 16396-2:2017

Plastics - Polyamide (PA) moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties (ISO 16396-2:2017)

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#### I.S. EN ISO 16396-2:2017

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#### National Foreword

I.S. EN ISO 16396-2:2017 is the adopted Irish version of the European Document EN ISO 16396-2:2017, Plastics - Polyamide (PA) moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties (ISO 16396-2:2017)

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# **EUROPEAN STANDARD**

# EN ISO 16396-2

# NORME EUROPÉENNE

**EUROPÄISCHE NORM** 

March 2017

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Supersedes EN ISO 1874-2:2012

### **English Version**

Plastics - Polyamide (PA) moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties (ISO 16396-2:2017)

Plastiques - Matériaux polyamides (PA) pour moulage et extrusion - Partie 2: Préparation des éprouvettes et détermination des propriétés (ISO 16396-2:2017)

Kunststoffe - Polyamid-(PA)-Formmassen für das Spritzgießen und die Extrusion - Teil 2: Herstellung von Probekörpern und Bestimmung von Eigenschaften (ISO 16396-2:2017)

This European Standard was approved by CEN on 3 February 2017.

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# EN ISO 16396-2:2017 (E)

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### **European foreword**

This document (EN ISO 16396-2:2017) has been prepared by Technical Committee ISO/TC 61 "Plastics" in collaboration with 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of an identical text or by endorsement, at the latest by September 2017 and conflicting national standards shall be withdrawn at the latest by September 2017.

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# INTERNATIONAL STANDARD

ISO 16396-2

First edition 2017-03

# Plastics — Polyamide (PA) moulding and extrusion materials —

Part 2:

# Preparation of test specimens and determination of properties

Plastiques — Matériaux polyamides (PA) pour moulage et extrusion —

Partie 2: Préparation des éprouvettes et détermination des propriétés



ISO 16396-2:2017(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 <a href="www.iso.org/directives">www.iso.org/directives</a>).

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This document was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 9, *Thermoplastic materials*.

This first edition of ISO 16396-2 cancels and replaces ISO 1874-2:2012, which has been technically revised.

A list of all parts in the ISO 16396 series can be found on the ISO website.

# Plastics — Polyamide (PA) moulding and extrusion materials —

### Part 2:

# Preparation of test specimens and determination of properties

### 1 Scope

This document specifies the methods of preparation of test specimens and the test methods to be used in determining the properties of polyamide moulding and extrusion materials. Requirements for handling test material and for conditioning both the test material before moulding and the specimens before testing are given.

Procedures and conditions for the preparation of test specimens and procedures for measuring properties of the materials from which these specimens are made are given. Properties and test methods that are suitable and necessary to characterize polyamide moulding and extrusion materials are listed.

The properties have been selected from the general test methods in ISO 10350-1. Other test methods in wide use for, or of particular significance to, these moulding and extrusion materials are also included in this document, as are the designatory properties viscosity number and tensile modulus of elasticity given in ISO 16396-1.

#### 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.

ISO 62, Plastics — Determination of water absorption

ISO 75-2, Plastics — Determination of temperature of deflection under load — Part 2: Plastics and ebonite

ISO 179-1, Plastics — Determination of Charpy impact properties — Part 1: Non-instrumented impact test

ISO 179-2, Plastics — Determination of Charpy impact properties — Part 2: Instrumented impact test

ISO 294-1, Plastics — Injection moulding of test specimens of thermoplastic materials —Part 1: General principles, and moulding of multipurpose and bar test specimens

ISO 294-4, Plastics — Injection moulding of test specimens of thermoplastic materials — Part 4: Determination of moulding shrinkage

ISO 307, Plastics — Polyamides — Determination of viscosity number

ISO 527-2, Plastics — Determination of tensile properties — Part 2: Test conditions for moulding and extrusion plastics

ISO 1110, Plastics — Polyamides — Accelerated conditioning of test specimens

ISO 1133-2, Plastics — Determination of the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of thermoplastics — Part 2: Method for materials sensitive to time-temperature history and/or moisture



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