STN

Plasty Polyamidy Zrýchlené kondicionovanie skúšobných telies (ISO 1110: 2019)

STN EN ISO 1110

64 0222

Plastics - Polyamides - Accelerated conditioning of test specimens (ISO 1110:2019)

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 12/19

Obsahuje: EN ISO 1110:2019, ISO 1110:2019

Oznámením tejto normy sa ruší STN EN ISO 1110 (64 0222) z decembra 2000

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN ISO 1110

June 2019

ICS 83.080.20

Supersedes EN ISO 1110:1997

English Version

Plastics - Polyamides - Accelerated conditioning of test specimens (ISO 1110:2019)

Plastiques - Polyamides - Conditionnement accéléré d'éprouvettes (ISO 1110:2019) Kunststoffe - Polyamide - Beschleunigte Konditionierung von Probekörpern (ISO 1110:2019)

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EN ISO 1110:2019 (E)

Contents	Page
Euronean foreword	3

European foreword

This document (EN ISO 1110:2019) 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of an identical text or by endorsement, at the latest by December 2019, and conflicting national standards shall be withdrawn at the latest by December 2019.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

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Endorsement notice

The text of ISO 1110:2019 has been approved by CEN as EN ISO 1110:2019 without any modification.

INTERNATIONAL STANDARD

ISO 1110

Fourth edition 2019-05

Plastics — Polyamides — Accelerated conditioning of test specimens

Plastiques — Polyamides — Conditionnement accéléré d'éprouvettes





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Published in Switzerland

COI	ontents	Page
Fore	eword	iv
Intro	roduction	v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	1
5	Apparatus	1
6	Procedure	2
7	Reference procedure	2
Bibl	liography	3

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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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

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

This fourth edition cancels and replaces the third edition (ISO 1110:1995), which has been technically revised. The main changes compared to the previous edition are as follows:

- the symbol of the polyamide has been corrected;
- the references have been changed to undated references.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

Various properties of polyamides (PA) depend upon their moisture content. Reproducible values of these properties can only be obtained with specimens having a specified moisture content. Such specimens are obtained by conditioning, i.e. by allowing them to reach equilibrium in an atmosphere with a specified temperature and relative humidity.

The rate of moisture absorption and, therefore, the rate of conditioning, is a function of the temperature. This rate is very low at room temperature. For example, a 4 mm thick test specimen of PA66 requires more than a year to attain its equilibrium moisture content in standard atmosphere 23/50 (see ISO 291). A higher temperature is used when conditioning specimens in a short period of time. Such a method for accelerated conditioning is presented in this document.

Plastics — Polyamides — Accelerated conditioning of test specimens

1 Scope

This document describes a method for the accelerated conditioning of test specimens of polyamides and copolyamides. It is applicable to grades containing fillers and other additives, but not grades containing more than a mass fraction of 2 % extractables.

The equilibrium moisture content attained by this method is close to the equilibrium moisture content obtained in standard atmosphere 23 °C/50 %RH. The values of mechanical properties obtained after accelerated conditioning in accordance with this method can differ slightly from those obtained after conditioning in standard atmosphere 23 °C/50 %RH.

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 483, Plastics — Small enclosures for conditioning and testing using aqueous solutions to maintain the humidity at a constant value

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