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Irish Standard
I.S. EN ISO 21309-2:2019

Plastics - Ethylene/vinyl alcohol (EVOH) copolymer moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties (ISO 21309-2:2019)

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National Foreword

I.S. EN ISO 21309-2:2019 is the adopted Irish version of the European Document EN ISO 21309-2:2019, Plastics - Ethylene/vinyl alcohol (EVOH) copolymer moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties (ISO 21309-2:2019)

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 21309-2

March 2019

ICS 83.080.20

English Version

Plastics - Ethylene/vinyl alcohol (EVOH) copolymer moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties (ISO 21309-2:2019)

Plastiques - Matériaux à base de copolymères éthylène/alcool vinylique (EVOH) pour moulage et extrusion - Partie 2: Préparation des éprouvettes et détermination des propriétés (ISO 21309-2:2019)

Kunststoffe - Ethylen-Vinylalkohol (EVOH)-Copolymer-Werkstoffe - Teil 2: Herstellung von Probekörpern und Bestimmung von Eigenschaften (ISO 21309-2:2019)

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European foreword

This document (EN ISO 21309-2:2019) 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of an identical text or by endorsement, at the latest by September 2019, and conflicting national standards shall be withdrawn at the latest by September 2019.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.

This document supersedes EN ISO 14663-2:2006.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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INTERNATIONAL STANDARD

ISO 21309-2

First edition
2019-02

Plastics — Ethylene/vinyl alcohol (EVOH) copolymer moulding and extrusion materials —

Part 2: Preparation of test specimens and determination of properties

Plastiques — Matériaux à base de copolymères éthylène/alcool vinylique (EVOH) pour moulage et extrusion —

Partie 2: Préparation des éprouvettes et détermination des propriétés

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Foreword

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

This first edition of ISO 21309-2 cancels and replaces ISO 14663-2:1999, which has been technically revised. The main changes compared to the previous edition are as follows:

— the number of the standard has been changed;

— the normative references have been updated.

A list of all parts in the ISO 21309 series can be found on the ISO website.

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Plastics — Ethylene/vinyl alcohol (EVOH) copolymer 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 ethylene/vinyl alcohol (EVOH) copolymer moulding and extrusion materials. It gives requirements for handling test material and for conditioning both the test material before moulding and the specimens before testing.

This document describes procedures and conditions for the preparation of test specimens, and procedures for measuring properties of the materials from which these specimens are made. Properties and test methods which are suitable and necessary to characterize EVOH moulding and extrusion materials are listed in this document.

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 is the melt mass-flow rate designatory property specified in ISO 21309-1.

In order to obtain reproducible and comparable test results, it is intended to use the methods of specimen preparation and conditioning, the specimen dimensions and the test procedures specified herein. Values determined will not necessarily be identical to those obtained using specimens of different dimensions or prepared using different procedures.

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 75-1:2013, *Plastics — Determination of temperature of deflection under load — Part 1: General test method*

ISO 75-2:2013, *Plastics — Determination of temperature of deflection under load — Part 2: Plastics and ebonite*

ISO 178, *Plastics — Determination of flexural properties*

ISO 179-1:2010, *Plastics — Determination of Charpy impact properties — Part 1: Non-instrumented impact test*

ISO 180:2000, *Plastics — Determination of Izod impact strength*

ISO 291:2008, *Plastics — Standard atmospheres for conditioning and testing*

ISO 294-2, *Plastics — Injection moulding of test specimens of thermoplastic materials — Part 2: Small tensile bars*

ISO 306, *Plastics — Thermoplastic materials — Determination of Vicat softening temperature (VST)*

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