



NSAI
Standards

Irish Standard
I.S. EN ISO 19062-2:2019

Plastics - Acrylonitrile-butadiene-styrene
(ABS) moulding and extrusion materials -
Part 2: Preparation of test specimens and
determination of properties (ISO 19062-
2:2019)

I.S. EN ISO 19062-2:2019

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This document is based on:

EN ISO 19062-2:2019

Published:

2019-03-27

*This document was published
under the authority of the NSAI
and comes into effect on:*

2019-04-14

ICS number:

83.080.20

NOTE: If blank see CEN/CENELEC cover page

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National Foreword

I.S. EN ISO 19062-2:2019 is the adopted Irish version of the European Document EN ISO 19062-2:2019, Plastics - Acrylonitrile-butadiene-styrene (ABS) moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties (ISO 19062-2:2019)

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EUROPEAN STANDARD

EN ISO 19062-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2019

ICS 83.080.20

Supersedes EN ISO 2580-2:2003

English Version

**Plastics - Acrylonitrile-butadiene-styrene (ABS) moulding
and extrusion materials - Part 2: Preparation of test
specimens and determination of properties (ISO 19062-
2:2019)**

Plastiques - Matériaux à base d'acrylonitrile-
butadiène-styrène (ABS) pour moulage et extrusion -
Partie 2: Préparation des éprouvettes et détermination
des propriétés (ISO 19062-2:2019)

Kunststoffe - Acrylnitril-Butadien-Styrol (ABS)-
Formmassen - Teil 2: Herstellung von Probekörpern
und Bestimmung von Eigenschaften (ISO 19062-
2:2019)

This European Standard was approved by CEN on 8 March 2019.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

EN ISO 19062-2:2019 (E)

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European foreword

This document (EN ISO 19062-2:2019) 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of an identical text or by endorsement, at the latest by September 2019, and conflicting national standards shall be withdrawn at the latest by September 2019.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 2580-2:2003.

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Endorsement notice

The text of ISO 19062-2:2019 has been approved by CEN as EN ISO 19062-2:2019 without any modification.

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INTERNATIONAL STANDARD

**ISO
19062-2**

First edition
2019-03

Plastics — Acrylonitrile-butadiene- styrene (ABS) moulding and extrusion materials —

Part 2: Preparation of test specimens and determination of properties

*Plastiques — Matériaux à base d'acrylonitrile-butadiène-styrène
(ABS) pour moulage et extrusion —*

Partie 2: Préparation des éprouvettes et détermination des propriétés



Reference number
ISO 19062-2:2019(E)

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Published in Switzerland

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ISO 19062-2:2019(E)

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, *Thermoplastic materials*.

This first edition of ISO 19062-2 cancels and replaces ISO 2580-2:2003, which has been technically revised mainly to update the normative references in [Clause 2](#):

- ISO 3167 has been replaced by ISO 20753;
- IEC 60093 has been replaced by IEC 62631-3-1 and IEC 62631-3-2;
- ISO 1183 has been replaced by ISO 1183-1, ISO 1183-2 and ISO 1183-3.

A list of all parts in the ISO 19062 series can be found on the ISO website.

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

There are many methods for testing properties of plastics. For some, the data obtained by different standards are not comparable. Even when the same standards have been used, they often allow the adoption of a wide range of alternative test conditions, and the data obtained are not necessarily comparable. The purpose of this document is to specify methods and conditions of test to be used for the acquisition and presentation of data to ensure that valid comparisons between acrylonitrile-butadiene-styrene (ABS) materials can be made.

Plastics — Acrylonitrile-butadiene-styrene (ABS) 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 acrylonitrile-butadiene-styrene (ABS) moulding and extrusion materials. Requirements for handling the 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 which are suitable and necessary to characterize ABS 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 specified in ISO 19062-1.

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 in this document. 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 62, *Plastics — Determination of water absorption*

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

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

ISO 178, *Plastics — Determination of flexural properties*

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 180, *Plastics — Determination of Izod impact strength*

ISO 293, *Plastics — Compression moulding of test specimens of thermoplastic materials*

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 294-3, *Plastics — Injection moulding of test specimens of thermoplastic materials — Part 3: Small plates*

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