



NSAI
Standards

Irish Standard
I.S. EN ISO 19069-1:2015

Plastics - Polypropylene (PP) moulding and extrusion materials - Part 1: Designation system and basis for specifications (ISO 19069-1:2015)

I.S. EN ISO 19069-1:2015

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NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W NSAI.ie

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

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English Version

**Plastics - Polypropylene (PP) moulding and extrusion materials -
Part 1: Designation system and basis for specifications (ISO
19069-1:2015)**

Plastiques - Matériaux polypropylène (PP) pour moulage et
extrusion - Partie 1: Système de désignation et base de
spécification (ISO 19069-1:2015)

Kunststoffe - Polypropylen (PP)-Formmassen - Teil 1:
Bezeichnungssystem und Basis für Spezifikationen (ISO
19069-1:2015)

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CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

EN ISO 19069-1:2015 (E)

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Foreword

This document (EN ISO 19069-1:2015) 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of an identical text or by endorsement, at the latest by September 2015, and conflicting national standards shall be withdrawn at the latest by September 2015.

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

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Endorsement notice

The text of ISO 19069-1:2015 has been approved by CEN as EN ISO 19069-1:2015 without any modification.

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INTERNATIONAL STANDARD

**ISO
19069-1**

First edition
2015-03-01

Plastics — Polypropylene (PP) moulding and extrusion materials —

Part 1: Designation system and basis for specifications

*Plastiques — Matériaux polypropylène (PP) pour moulage et
extrusion —*

Partie 1: Système de désignation et base de spécification



Reference number
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ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

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ISO 19069-1:2015(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 meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 61, *Plastics*, Subcommittee SC 9, *Thermoplastic materials*.

This first edition of ISO 19069-1 cancels and replaces ISO 1873-1:1995, which has been technically revised to introduce a new designation system.

ISO 19069 consists of the following parts, under the general title *Plastics — Polypropylene (PP) moulding and extrusion materials*:

- *Part 1: Designation system and basis for specifications*
- *Part 2: Preparation of test specimens and determination of properties*

Plastics — Polypropylene (PP) moulding and extrusion materials —

Part 1: Designation system and basis for specifications

1 Scope

This part of ISO 19069 establishes a system of designation for polypropylene (PP) thermoplastic material, which can be used as the basis for specifications.

The types of polypropylene plastics are differentiated from each other by a classification system based on appropriate levels of the designatory properties

- a) tensile modulus of elasticity,
- b) impact strength, and
- c) melt mass-flow rate (MFR),

and on information about basic polymer parameters, intended application and/or method of processing, important properties, additives, colorants, fillers, and reinforcing materials.

This part of ISO 19069 is applicable to all polypropylene homopolymers and to copolymers of propylene with a content of other 1-olefinic of less than 50 % (m/m), as well as blends of polymers containing at least 50 % (m/m) of aforementioned polymers.

It applies to materials ready for normal use in the form of powder, granules, or pellets and to materials unmodified or modified by colorants, additives, fillers, etc.

This part of ISO 19069 does not apply to propylene-based rubber.

It is not intended to imply that materials having the same designation give necessarily the same performance. This part of ISO 19069 does not provide engineering data, performance data, or data on processing conditions which can be required to specify a material for a particular application and/or method of processing.

If such additional properties are required, they shall be determined in accordance with the test methods specified in ISO 19069-2¹⁾, if suitable.

In order to specify a thermoplastic material for a particular application or to ensure reproducible processing, additional requirements can be given in data block 5 (see [3.1](#)).

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 1043-1, *Plastics — Symbols and abbreviated terms — Part 1: Basic polymers and their special characteristics*

1) To be published.

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