

STN	Plasty Materiály z mäkkého polyvinylchloridu (PVC-P) na tvárnenie a vytlačanie Časť 1: Systém označovania a základy na špecifikáciu (ISO 24023-1: 2020)	STN EN ISO 24023-1 64 3208
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Plastics - Plasticized poly(vinyl chloride) (PVC-P) moulding and extrusion materials - Part 1: Designation system and basis for specifications (ISO 24023-1:2020)

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. 09/20

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English Version

**Plastics - Plasticized poly(vinyl chloride) (PVC-P)
moulding and extrusion materials - Part 1: Designation
system and basis for specifications (ISO 24023-1:2020)**

Plastiques - Matériaux à base de poly(chlorure de vinyle) plastifié (PVC-P) pour moulage et extrusion -
Partie 1: Système de désignation et base de
spécifications (ISO 24023-1:2020)

Kunststoffe - Weichmacherhaltige
Polyvinylchlorid(PVC-P)-Werkstoffe - Teil 1:
Bezeichnungssystem und Basis für Spezifikationen
(ISO 24023-1:2020)

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EN ISO 24023-1:2020 (E)

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European foreword

This document (EN ISO 24023-1:2020) 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of an identical text or by endorsement, at the latest by November 2020, and conflicting national standards shall be withdrawn at the latest by November 2020.

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 24023-1:2020 has been approved by CEN as EN ISO 24023-1:2020 without any modification.

INTERNATIONAL STANDARD

ISO 24023-1

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Plastics — Plasticized poly(vinyl chloride) (PVC-P) moulding and extrusion materials —

Part 1: Designation system and basis for specifications

Plastiques — Matériaux à base de poly(chlorure de vinyle) plastifié (PVC-P) pour moulage et extrusion —

Partie 1: Système de désignation et base de spécifications



Reference number
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ISO 24023-1:2020(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 of 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 www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 9, *Thermoplastic materials*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 249, *Plastics*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This first edition of ISO 24023-1 cancels and replaces ISO 2898-1:1996, which has been technically revised.

The main changes compared to the previous edition are as follows:

- the positions of Data block 2 and Data block 4 of the old designation system has been changed.

A list of all parts in the ISO 24023 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.

Plastics — Plasticized poly(vinyl chloride) (PVC-P) moulding and extrusion materials —

Part 1: Designation system and basis for specifications

1 Scope

1.1 This document establishes a system of designation for plasticized PVC thermoplastic material which can be used as the basis for specifications.

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

- a) Shore hardness,
- b) density,
- c) torsional-stiffness temperature at 300 MPa,

and on information about physical form, intended application and/or method of processing, important properties, additives, colorants.

1.3 This document is applicable to all plasticized compositions of homopolymers and copolymers that contain at least a mass percentage of 50 % of vinyl chloride. It is also applicable to plasticized compositions containing chlorinated poly (vinyl chloride) and to plasticized compositions containing blends of one or more of the above-mentioned polymers, provided that the total amount of these polymers represents at least a mass percentage of 50 % of the polymer content of the composition.

This document applies to materials ready for normal use in the form of powder (dry blends), granules or pellets and to materials unmodified or modified by colorants, additives, fillers, etc. It does not apply to cellular plastics or to paste compositions (plastisols).

1.4 This document does not intend to imply that materials having the same designation give the same performance. It does not provide engineering data, performance data or data on processing conditions which might be required to specify a material for a particular application and/or method of processing.

If additional properties are required, they are, if suitable, determined using the test methods specified in ISO 24023-2.

1.5 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 [4.1](#)).

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

ISO 24023-1:2020(E)

ISO 24023-2, *Plastics — Plasticized poly (vinyl chloride) (PVC-P) moulding and extrusion materials — Part 2: Preparation of test specimens and determination of properties*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN