

STN	Plasty Polyvinylchlorid Stanovenie zvyškového monoméru vinylchloridu metódou plynovej chromatografie (ISO 6401: 2022)	STN EN ISO 6401 64 0328
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Plastics - Poly(vinyl chloride) - Determination of residual vinyl chloride monomer using gas-chromatographic method (ISO 6401:2022)

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. 03/23

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English Version

Plastics - Poly(vinyl chloride) - Determination of residual vinyl chloride monomer using gas-chromatographic method (ISO 6401:2022)

Plastiques - Poly(chlorure de vinyle) - Détermination du chlorure de vinyle monomère résiduel par la méthode de chromatographie en phase gazeuse (ISO 6401:2022)

Kunststoffe - Polyvinylchlorid - Bestimmung des Restgehaltes an Vinylchlorid-Monomer - Gaschromatographisches Verfahren (ISO 6401:2022)

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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EUROPÄISCHES KOMITEE FÜR NORMUNG

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EN ISO 6401:2022 (E)

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European foreword

This document (EN ISO 6401:2022) 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of an identical text or by endorsement, at the latest by June 2023, and conflicting national standards shall be withdrawn at the latest by June 2023.

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 6401:2008.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

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Endorsement notice

The text of ISO 6401:2022 has been approved by CEN as EN ISO 6401:2022 without any modification.

**INTERNATIONAL
STANDARD**

**ISO
6401**

Third edition
2022-12

**Plastics — Poly(vinyl chloride) —
Determination of residual vinyl
chloride monomer using gas-
chromatographic method**



Reference number
ISO 6401:2022(E)

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ISO 6401:2022(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 5, *Physical-chemical properties*, 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 third edition cancels and replaces the second edition (ISO 6401:2008), which has been technically revised.

The main changes are as follows:

- a reference for the density of *N,N'*-dimethylacetamide has been added;
- the condition for storing vinyl chloride standard solutions has been specified more precisely;
- the formula for the expression of the vinyl chloride content in relation to the amount of resin has been corrected;
- the test report has been extended.

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 — Poly(vinyl chloride) — Determination of residual vinyl chloride monomer using gas-chromatographic method

SAFETY PRECAUTIONS — Persons using this document should be familiar with normal laboratory practice, if applicable. This document does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user to establish appropriate safety and health practices and to determine applicability of any regulatory requirements.

1 Scope

This document specifies a method for the determination of vinyl chloride monomer in homopolymer and copolymer resins of vinyl chloride and compounded materials. The method is based on sample dissolution and headspace gas chromatography. Concentrations of vinyl chloride in the range 0,1 mg/kg to 3,0 mg/kg can be determined.

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 472, *Plastics — Vocabulary*

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