

**PLASTID. TUHASISALDUSE MÄÄRAMINE. OSA 5:
POLÜ(VINÜÜLKLORIID)**

**Plastics - Determination of ash - Part 5: Poly(vinyl
chloride)**

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 3451-5:2000 sisaldab Euroopa standardi EN ISO 3451-5:1996 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 3451-5:2000 consists of the English text of the European standard EN ISO 3451-5:1996.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
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EUROPEAN STANDARD

EN ISO 3451-5

NORME EUROPÉENNE

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English version

Plastics - Determination of ash - Part 5: Poly(vinyl chloride) (ISO 3451-5:1989)

Plastiques - Détermination du taux de cendres
- Partie 5: Poly(chlorure de vinyle)
(ISO 3451-5:1989)

Kunststoffe - Bestimmung der Asche - Teil 5:
Poly(vinylchlorid) (ISO 3451-5:1989)

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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Foreword

The text of the International Standard from Technical Committee ISO/TC 61 "Plastics" of the International Organization for Standardization (ISO) has been taken over as an European Standard by Technical Committee CEN/TC 249 "Plastics", the secretariat of which is held by IBN.

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of an identical text or by endorsement, at the latest by April 1997, and conflicting national standards shall be withdrawn at the latest by April 1997.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 3451-5:1989 has been approved by CEN as a European Standard without any modification.

Plastics — Determination of ash —

Part 5 : Poly(vinyl chloride)

WARNING — Poly(vinyl chloride) evolves hydrogen chloride on thermal decomposition, and precautions should be taken to avoid inhalation of fumes.

1 Scope

This part of ISO 3451 specifies two methods for the determination of the ash of poly(vinyl chloride). The general procedures given in ISO 3451-1 are followed — method A (ash) or method B (sulfated ash). These methods may be used for resins, compositions and finished products.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this part of ISO 3451. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this part of ISO 3451 are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 3451-1:1981, *Plastics — Determination of ash — Part 1: General methods.*

3 Principle

Method A

Direct calcination, i.e. by burning the organic matter and treating the residue at 850 °C until constant mass is reached.

Method B

Calcination, with sulfuric acid treatment after combustion, i.e. by burning the substance and transforming the residue into sulfates using concentrated sulfuric acid and, finally, heating the residue at 850 °C until constant mass is reached. Should lead compounds be present, method B is recommended.

4 Reagents (for method B only)

4.1 Sulfuric acid, ρ 1,84 g/ml, of recognized analytical grade.

5 Apparatus

Apparatus specified in ISO 3451-1, and in particular:

5.1 Crucible of silica or platinum, diameter of upper part 45 mm to 75 mm, height equal to the diameter. The size shall be sufficient so that the crucible is no more than half-filled by the test portion.

5.2 Bunsen burner, with silica triangle and tripod, or other suitable heating device.

5.3 Muffle furnace, capable of being controlled thermostatically at 850 °C \pm 50 °C.

5.4 Pipette, of appropriate capacity (for method B only).

5.5 Desiccator, containing an effective drying agent that does not react chemically with the ash components.

NOTE 1 In some cases, the affinity of the ash for water may be greater than that of drying agents commonly used.