

Plastics - Poly(vinyl chloride) (PVC) based profiles -
Determination of the appearance after exposure at
150 °C

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>See Eesti standard EVS-EN 478:2025 sisaldab Euroopa standardi EN 478:2025 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 12.03.2025.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN 478:2025 consists of the English text of the European standard EN 478:2025.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 12.03.2025.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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ICS 83.080.20

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English Version

Plastics - Poly(vinyl chloride) (PVC) based profiles - Determination of the appearance after exposure at 150 °C

Plastiques - Profilés à base de poly(chlorure de vinyle)
(PVC) - Caractérisation de l'aspect après
conditionnement à 150 °C

Kunststoffe - Profile auf Basis von Polyvinylchlorid
(PVC) - Bestimmung des Erscheinungsbildes nach
Lagerung bei 150 °C

This European Standard was approved by CEN on 28 January 2025.

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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

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European foreword

This document (EN 478:2025) has been prepared by Technical Committee CEN/TC 249 “Plastics”, the secretariat of which is held by SIS.

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of an identical text or by endorsement, at the latest by September 2025, and conflicting national standards shall be withdrawn at the latest by September 2025.

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 478:2018.

This document includes the following significant technical changes with respect to EN 478:2018:

- term 3.1 “defect” has been deleted and defects have been described in Clause 8 instead.

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

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1 Scope

This document specifies a method for determining the effect of heat on unplasticized poly(vinyl chloride) (PVC-U) profiles, to be carried out in air at 150 °C.

It is also applicable to PVC-based profiles at specified temperatures/test conditions.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

4 Principle

A test specimen of a specified length of profile is maintained in an oven at 150 °C for 30 min and is inspected visually on the inside, outside and the cross-section of the wall for defects after heating.

5 Apparatus

5.1 Ventilated oven, thermostatically controlled, with air circulation, in which the test specimens can be exposed to a temperature of 150 °C.

The oven shall be equipped with a thermostat capable of maintaining the temperature at (150 ± 3) °C and a support system which keeps the specimen in position and enables heat transfer.

NOTE The use of talc or PTFE foil can be convenient to avoid sticking.

The capacity of the oven shall be such that, after insertion of the test specimen, the test temperature is regained within 15 min.

6 Test specimen

The test specimen shall have a minimum length of 200 mm of profile.

7 Test procedure

7.1 Set the oven temperature to 150 °C.

7.2 When the oven has reached 150 °C, place the test specimen horizontally in the oven.

7.3 Maintain the test specimen in the oven for (30_0^{+3}) min, measuring from the time when the oven temperature has returned to 150 °C.

7.4 Remove the test specimen from the oven, taking care not to distort or otherwise damage it.