

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

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN 478:2018 sisaldab Euroopa standardi EN 478:2018 ingliskeelset teksti.	This Estonian standard EVS-EN 478:2018 consists of the English text of the European standard EN 478:2018.
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EUROPEAN STANDARD

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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 6 December 2017.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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## European foreword

This document (EN 478:2018) has been prepared by 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of an identical text or by endorsement, at the latest by July 2018, and conflicting national standards shall be withdrawn at the latest by July 2018.

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

This document supersedes EN 478:1995.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## 1 Scope

This European Standard 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

For the purposes of this document, the following terms and definitions apply.

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

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

### 3.1 defect

visual appearance of blisters, cavities or cracks on any of the surfaces (inner and outer) of the profile and of any delamination in the cross section

## 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  $(150 \pm 3)$  °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.