



# SLOVENSKI STANDARD

## SIST EN 478:2018

01-april-2018

Nadomešča:  
SIST EN 478:2000

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**Polimerni materiali - Profili na osnovi polivinilklorida (PVC) - Ugotavljanje videza po izpostavi temperaturi 150 °C**

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

Profile aus weichmacherfreiem Polyvinylchlorid (PVC-U) - Bestimmung des Verhaltens nach Lagerung bei 150 °C - Prüfverfahren

Profilés de poly(chlorure de vinyle) non plastifié (PVC-U) - Caractérisation de l'aspect après conditionnement à 150 °C - Méthode d'essai

**Ta slovenski standard je istoveten z: EN 478:2018**

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**ICS:**

83.140.99	Drugi izdelki iz gume in polimernih materialov	Other rubber and plastics products
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**SIST EN 478:2018**

**en,fr,de**

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EUROPEAN STANDARD

EN 478

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2018

ICS 83.080.20; 83.140.99

Supersedes EN 478:1995

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 COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
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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of an identical text or by endorsement, at the latest by July 2018, and conflicting national standards shall be withdrawn at the latest by July 2018.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.

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## EN 478:2018 (E)

### 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.

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.

7.5 Allow the test specimen to cool in air. When the test specimen is cool enough for handling, examine it for defects.

## 8 Expression of results

The nature and the location of any defects shall be noted.

## 9 Test report

The test report shall include the following information:

- a) reference to this document (i.e. EN 478);
- b) the test laboratory;
- c) full identification of the profile;
- d) the date of testing;
- e) the apparatus used;
- f) the results of the examination of the test specimen;
- g) all operating details not specified in this document as well as any incidents likely to have influenced the results.

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