

Plastics - Poly(vinyl chloride) (PVC) based profiles -
Determination of heat reversion

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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English Version

Plastics - Poly(vinyl chloride) (PVC) based profiles - Determination of heat reversion

Plastiques - Profilés à base de poly(chlorure de vinyle)
(PVC) - Détermination du retrait à chaud

Kunststoffe - Profile auf Basis von Polyvinylchlorid
(PVC) - Bestimmung des Wärmeschrumpfes

This European Standard was approved by CEN on 6 December 2017.

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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 479:2018) 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of an identical text or by endorsement, at the latest by July 2018, and conflicting national standards shall be withdrawn at the latest by July 2018.

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1 Scope

This European Standard specifies a method for determining the heat reversion of unplasticized poly(vinyl chloride) (PVC-U) profiles at 100 °C in air.

It is also applicable to PVC-based profiles at specified temperatures/other 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 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>

4 Principle

A test specimen of a specified length of profile is maintained in an oven at 100 °C for 1 h.

A marked length of this test specimen is measured under identical conditions, before and after heating in the oven.

The heat reversion is calculated as the percentage change of the final length relative to the initial length per pair of marks.

5 Apparatus

5.1 Air oven, thermostatically controlled, with forced air circulation, in which the test specimens can be exposed to a temperature of 100 °C.

The oven shall be equipped with a thermostat capable of maintaining the temperature at (100 ± 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.

5.2 Measuring device, to measure the length of the test specimen to an accuracy of 0,1 mm.

6 Test specimens

6.1 The test specimen shall be of a minimum length of 250 mm of profile.

6.2 Prepare three similar test specimens per length of profile.

7 Conditioning

Condition the test specimens for at least 1 h at room temperature.

In cases of dispute the test specimens shall be conditioned at (23 ± 2) °C.