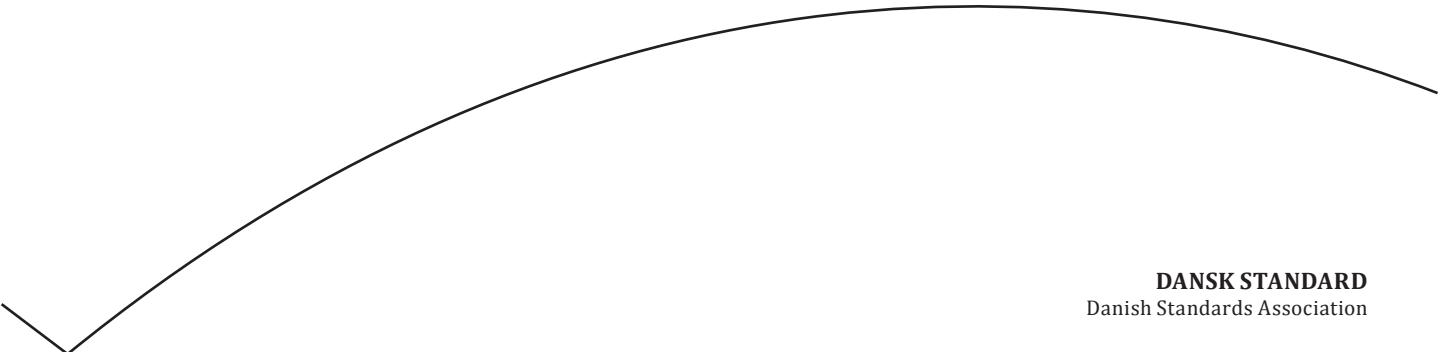




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# Vulkaniseret eller termoplastisk gummi – Gummifolier og gummibelagte tekstiler – Bestemmelse af flygtige væskers gennemtrængningshastighed (gravimetrisk teknik)

Rubber, vulcanized or thermoplastic – Rubber sheets and rubber-coated fabrics – Determination of transmission rate of volatile liquids (gravimetric technique) (ISO 6179:2017)



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# EUROPÄISCHE NORM

August 2017

ICS 59.080.40; 83.140.10

Supersedes EN ISO 6179:2010

English Version

## Rubber, vulcanized or thermoplastic - Rubber sheets and rubber-coated fabrics - Determination of transmission rate of volatile liquids (gravimetric technique) (ISO 6179:2017)

Caoutchouc vulcanisé ou thermoplastique -  
Feuilles de caoutchouc et supports textiles  
revêtus de caoutchouc - Détermination du  
taux de transmission des liquides volatils  
(technique gravimétrique) (ISO 6179:2017)

Elastomere oder thermoplastische Elastomere  
- Elastomerfolien und elastomer-beschichtete  
Gewebe - Bestimmung der Durchlässigkeitsrate  
von flüchtigen Flüssigkeiten (gravimetrisches  
Verfahren) (ISO 6179:2017)

This European Standard was approved by CEN on 22 August 2017.

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## European foreword

This document ([EN ISO 6179:2017](#)) has been prepared by Technical Committee ISO/TC 45 "Rubber and rubber products" in collaboration with Technical Committee CEN/TC 248 "Textiles and textile products" the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by February 2018, and conflicting national standards shall be withdrawn at the latest by February 2018.

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 ISO 6179:2010](#).

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.

### Endorsement notice

The text of [ISO 6179:2017](#) has been approved by CEN as [EN ISO 6179:2017](#) without any modification.

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Fifth edition  
2017-07-21

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# Rubber, vulcanized or thermoplastic — Rubber sheets and rubber-coated fabrics — Determination of transmission rate of volatile liquids (gravimetric technique)

*Caoutchouc vulcanisé ou thermoplastique — Feuilles de caoutchouc  
et supports textiles revêtus de caoutchouc — Détermination du taux  
de transmission des liquides volatils (technique gravimétrique)*



Reference number  
ISO 6179:2017(E)

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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*, Subcommittee SC 2, *Testing and analysis*.

This fifth edition cancels and replaces the fourth edition ([ISO 6179:2010](#)), which has been technically revised to include a calibration schedule in [Annex A](#).

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# Rubber, vulcanized or thermoplastic — Rubber sheets and rubber-coated fabrics — Determination of transmission rate of volatile liquids (gravimetric technique)

## 1 Scope

This document specifies two methods for determining, by measurement of the transmission rate, the permeability of rubber to volatile liquids diffusing into open air.

It is applicable only to materials in sheet form and to coated fabrics having thicknesses between 0,2 mm and 3,0 mm.

It is restricted to transmission rates of more than 0,1 g/m<sup>2</sup>·h.

The methods are particularly useful for comparing the relative transmission rates of one liquid through different materials, or of several liquids through one material.

Method A, with refilling, is used when testing mixtures of liquids which give different transmission rates.

Method B, with no refilling, is used for a single-component liquid.

NOTE A method for the determination of water vapour transmission rate is given in [ISO 2528](#).

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

[ISO 188](#), *Rubber, vulcanized or thermoplastic — Accelerated ageing and heat resistance tests*

[ISO 2231](#), *Rubber- or plastics-coated fabrics — Standard atmospheres for conditioning and testing*

[ISO 2286-3](#), *Rubber- or plastics-coated fabrics — Determination of roll characteristics — Part 3: Method for determination of thickness*

[ISO 3310-1](#), *Test sieves — Technical requirements and testing — Part 1: Test sieves of metal wire cloth*

[ISO 18899:2013](#), *Rubber — Guide to the calibration of test equipment*

ISO 23529, *Rubber — General procedures for preparing and conditioning test pieces for physical test methods*