

Irish Standard I.S. EN ISO 11058:2019

Geotextiles and geotextile-related products - Determination of water permeability characteristics normal to the plane, without load (ISO 11058:2019)

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I.S. EN ISO 11058:2019

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National Foreword

I.S. EN ISO 11058:2019 is the adopted Irish version of the European Document EN ISO 11058:2019, Geotextiles and geotextile-related products - Determination of water permeability characteristics normal to the plane, without load (ISO 11058:2019)

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EUROPEAN STANDARD

EN ISO 11058

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2019

ICS 59.080.70

Supersedes EN ISO 11058:2010

English Version

Geotextiles and geotextile-related products -Determination of water permeability characteristics normal to the plane, without load (ISO 11058:2019)

Géotextiles et produits apparentés - Détermination des caractéristiques de perméabilité à l'eau normalement au plan, sans contrainte mécanique (ISO 11058:2019)

Geotextilien und geotextilverwandte Produkte -Bestimmung der Wasserdurchlässigkeit normal zur Ebene, ohne Auflast (ISO 11058:2019)

This European Standard was approved by CEN on 24 May 2019.

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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN ISO 11058:2019 (E)

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EN ISO 11058:2019 (E)

European foreword

This document (EN ISO 11058:2019) has been prepared by Technical Committee ISO/TC 221 "Geosynthetics" in collaboration with Technical Committee CEN/TC 189 "Geosynthetics" 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of an identical text or by endorsement, at the latest by December 2019, and conflicting national standards shall be withdrawn at the latest by December 2019.

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.

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The text of ISO 11058:2019 has been approved by CEN as EN ISO 11058:2019 without any modification.

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INTERNATIONAL STANDARD

ISO 11058

Third edition 2019-05

Geotextiles and geotextile-related products — Determination of water permeability characteristics normal to the plane, without load

Géotextiles et produits apparentés — Détermination des caractéristiques de perméabilité à l'eau normalement au plan, sans contrainte mécanique



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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).

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For an explanation of 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 www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 221, *Geosynthetics*.

This third edition cancels and replaces the second edition (ISO 11058:2010), which has been technically revised.

The main changes compared to the previous edition are as follows:

- editorial modifications:
- formula corrections.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Geotextiles and geotextile-related products — Determination of water permeability characteristics normal to the plane, without load

1 Scope

This document specifies two test methods for determining the water permeability characteristics of a single layer of geotextile or geotextile-related product normal to the plane:

- a) the constant head method; and
- b) the falling head method.

2 Normative references

The following referenced documents are referred to 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 2854, Statistical interpretation of data — Techniques of estimation and tests relating to means and variances

ISO 5813, Water quality — Determination of dissolved oxygen — Iodometric method

ISO 9862, Geosynthetics — Sampling and preparation of test specimens

ISO 10320, Geosynthetics — Identification on site

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:

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

3 1

velocity index

v-index

velocity corresponding to a head loss of 50 mm across a specimen, expressed to the nearest ±1 mm/s

4 Test specimens

4.1 Handling

The sample shall not be folded and shall be handled as infrequently as possible to avoid disturbance to its structure. The sample shall be kept in a flat position without any load.

4.2 Selection

Test specimens shall be taken from the sample in accordance with ISO 9862.



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