

STN	Plasty Bariérové fólie na dezinfekciu poľnohospodárskej a záhradníckej pôdy vydymovaním Časť 1: Špecifikácie bariérových fólií	STN EN 17098-1 64 6021
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Plastics - Barrier films for agricultural and horticultural soil disinfection by fumigation - Part 1: Specifications for barrier films

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 11/25

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English Version

Plastics - Barrier films for agricultural and horticultural soil disinfection by fumigation - Part 1: Specifications for barrier films

Plastiques - Films barrière pour la désinfection par fumigation des sols agricoles et horticoles - Partie 1 : Spécifications des films barrière

Kunststoffe - Sperrschichtfolien für die Desinfektion durch Begasung von Landwirtschafts- und Gartenbauböden - Teil 1: Spezifikationen für Sperrschichtfolien

This European Standard was approved by CEN on 30 June 2025.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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EN 17098-1:2025 (E)

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EN 17098-1:2025 (E)**European foreword**

This document (EN 17098-1:2025) has been prepared by Technical Committee CEN/TC 249 “Plastics”, the secretariat of which is held by SIS.

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of an identical text or by endorsement, at the latest by February 2026, and conflicting national standards shall be withdrawn at the latest by February 2026.

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 will supersede EN 17098-1:2018.

EN 17098-1:2025 includes the following significant technical changes with respect to EN 17098-1:2018:

- Clause 8 on the design-for-recycling of end of life of barrier films has been added;
- Clause 10 on removal and collection instructions of used barrier films has been modified, referring to EN 18109 for additional information;
- in Clause 11 on removal and collection instructions of used barrier films, the reference to Annex C has been deleted, referring to EN 18109 for additional information;
- Annex A modified;
- Annex C on guidance for conditions for installation, use and removal of barrier films, has been deleted

This document (EN 17098-1:2025) has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

EN 17098, Plastics — Barrier films for agricultural and horticultural soil disinfection by fumigation, consists of the following parts:

- *Part 1: Specifications for barrier films*
- *Part 2: Method for determining film permeability using a static technique*

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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

Introduction

Use of barrier films designed for agricultural and horticultural soil disinfection by means of fumigation has the main objectives of protecting operators and personnel during and after the fumigation operation, limiting the consumption of harmful substances and safeguarding the environment.

EN 17098-1:2025 (E)**1 Scope**

This document specifies the requirements relating to the dimensional, mechanical and physical-chemical characteristics of thermoplastic barrier films designed for agricultural and horticultural soil disinfection by means of fumigation.

This document specifies also the test methods for verifying these requirements, except the method for determining film permeability using a static technique, which is specified in EN 17098-2.

This document defines the criteria for design for recycling of barrier films and refer to EN 18109 for the product lifecycle, including installation, use, removal and collection for end of life for management of the product after its usage.

This document is applicable to films used during soil disinfection by fumigation (class 1), and to films used during soil disinfection subsequently kept *in situ* as mulch films (class 2).

On the date of publication of this document, the barrier films are multi-layer films.

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.

EN 17098-2, *Plastics — Barrier films for agricultural and horticultural soil disinfection by fumigation — Part 2: Method for film permeability determination using a static technique*

EN 18109:2025, *Plastics — Agricultural plastic products — Installation, use, removal, sorting, collection, preparation for recycling and design for recycling guidelines*

EN ISO 291, *Plastics — Standard atmospheres for conditioning and testing (ISO 291)*

EN ISO 527-1, *Plastics — Determination of tensile properties — Part 1: General principles (ISO 527-1)*

EN ISO 527-3, *Plastics — Determination of tensile properties — Part 3: Test conditions for films and sheets (ISO 527-3)*

EN ISO 1133-1, *Plastics — Determination of the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of thermoplastics — Part 1: Standard method (ISO 1133-1)*

EN ISO 4892-2, *Plastics — Methods of exposure to laboratory light sources — Part 2: Xenon-arc lamps (ISO 4892-2)*

EN ISO 7765-1, *Plastics film and sheeting — Determination of impact resistance by the free-falling dart method — Part 1: Staircase methods (ISO 7765-1)*

ISO 4591, *Plastics — Film and sheeting — Determination of average thickness of a sample, and average thickness and yield of a roll, by gravimetric techniques (gravimetric thickness)*

ISO 4592, *Plastics — Film and sheeting — Determination of length and width*

ISO 4593, *Plastics — Film and sheeting — Determination of thickness by mechanical scanning*

ISO 22095:2020, *Chain of custody — General terminology and models*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN