
Polimerni materiali - Prekrivne plastomerne folije za uporabo v kmetijstvu in vrtnarstvu

Plastics - Thermoplastic covering films for use in agriculture and horticulture

Kunststoffe - Thermoplastische Abdeckfolien für den Einsatz in der Landwirtschaft und im Gartenbau

Plastiques - Films de couverture thermoplastiques pour utilisation en agriculture et horticulture

Ta slovenski standard je istoveten z: EN 13206:2025

SIST EN 13206:2025

<https://standards.iteh.ai/catalog/standards/sist/48a6254e-3948-4a14-8927-2d9ef6c4ac59/sist-en-13206-2025>

ICS:

65.040.30	Rastlinjaki in druge naprave	Greenhouses and other installations
83.140.10	Filmi in folije	Films and sheets

SIST EN 13206:2025

en,fr,de

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 13206

August 2025

ICS 65.040.30; 83.140.10

Supersedes EN 13206:2017+A1:2020

English Version

**Plastics - Thermoplastic covering films for use in
agriculture and horticulture**

Plastiques - Films de couverture thermoplastiques
pour utilisation en agriculture et horticulture

Kunststoffe - Thermoplastische Abdeckfolien für den
Einsatz in der Landwirtschaft und im Gartenbau

This European Standard was approved by CEN on 16 June 2025.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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.

CEN members are the national standards bodies of 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 United Kingdom.

SIST EN 13206:2025

<https://standards.iteh.ai/catalog/standards/sist/48a6254e-3948-4a14-8927-2d9ef6c4ac59/sist-en-13206-2025>



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

Contents

Page

European foreword	5
1 Scope	6
2 Normative references	6
3 Terms and definitions.....	7
4 Types and use	9
5 Materials.....	10
6 Durability	10
7 Requirements	11
7.1 General requirements.....	11
7.2 Requirement for appearance	14
8 Test methods.....	15
8.1 Determination of thickness.....	15
8.2 Determination of width.....	15
8.3 Determination of tensile characteristics	15
8.4 Determination of impact resistance	15
8.5 Determination of elongation under a steady load (creep test).....	16
8.6 Determination of visible light transmission.....	18
8.7 Determination of haze	18
8.8 Determination of IR effectiveness (η_{ir}) (thermal clear and thermal diffusing films)	18
8.9 Determination of resistance to weathering.....	19
8.10 Determination of the chlorine content of used films.....	20
8.11 Determination of the sulfur content of used films.....	20
8.12 Determination of the roll/sheet length	20
9 Film acceptance, storage and handling	21
9.1 Acceptance	21
9.2 Storage and handling of rolls.....	21
10 Designation.....	21
11 Marking.....	22
11.1 Marking on the film.....	22
11.2 Marking on the packaging or label.....	22
12 Instructions for storage, installation and use of covering films.....	23
13 Design for recycling and end of life of covering films	23
14 Removal and collection instructions of used covering films	25
Annex A (informative) Exposure to other light sources	26
A.1 Medium pressure mercury vapour lamps.....	26
A.2 Fluorescent UV lamps	28

Annex B (informative) Empirical correlation between durations of covering films exposed to artificial weathering and a natural exposure	30
B.1 Exposure to xenon-arc lamps	30
B.2 Exposure to medium pressure mercury vapour lamps	32
B.3 Exposure to fluorescent UV lamps.....	32
Annex C (normative) Determination of the chlorine content by coulometry	34
C.1 Principle.....	34
C.2 Apparatus and reagents	34
C.3 Test procedure.....	34
C.4 Calculation and expression of the results.....	36
C.5 Test report.....	36
C.6 Precision	36
C.7 Determination of chlorine in the presence of benzotriazole	37
Annex D (normative) Determination of the sulfur content by ICP- OES technique	38
D.1 Instruments and reagents	38
D.2 Method of analysis.....	38
D.3 References preparation and calibration	39
D.4 Sample preparation (digestion)	40
D.5 Sulfur measurement.....	40
D.6 Expression of results	40
D.7 Sulfur determination in case of presence of Ni quenchers.....	40
D.8 Examples of conditions.....	41
Annex E (informative) Alternative method for the determination of chlorine and sulfur contents by X-ray fluorescence	43
E.1 Principle.....	43
E.2 Introduction.....	43
E.3 Apparatus	43
E.4 Test procedure.....	43
E.5 Calculation and expression of the result.....	43
E.6 Determination of chlorine in the presence of benzotriazole	43
E.7 Sulfur determination in case of presence of Ni quenchers.....	44
E.8 The test report shall include the following information:	44
Annex F (informative) Alternative methods for the determination of sulfur content by ultraviolet fluorescence method or by coulometry.....	45
F.1 Principle.....	45
F.2 Ultraviolet fluorescence method.....	45
F.3 Coulometry.....	47

EN 13206:2025 (E)

Annex G (normative) Basic guidance for installation, use and disposal of covering films.....	50
G.1 Greenhouse covering films.....	50
G.2 Low tunnel covering films.....	50
Annex H (informative) Industrial standard formats of films.....	51
Bibliography	52

iTeh Standards
(<https://standards.itih.ai>)
Document Preview

[SIST EN 13206:2025](https://standards.itih.ai/catalog/standards/sist/48a6254e-3948-4a14-8927-2d9ef6c4ac59/sist-en-13206-2025)

<https://standards.itih.ai/catalog/standards/sist/48a6254e-3948-4a14-8927-2d9ef6c4ac59/sist-en-13206-2025>

European foreword

This document (EN 13206:2025) 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 supersedes EN 13206:2017+A1:2020.

EN 13206:2025 includes the following significant technical changes with respect to EN 13206:2017+A1:2020:

- Clause 5 on materials has been added;
- Clauses 10, 11 and 12 on designation, marking and instructions for storage, installation and use of covering films, respectively, have been modified;
- Clause 13 on the design for recycling of end of life of covering films has been added;
- Clause 14 on removal and collection instructions of used silage stretch films has been modified, referring to EN 18109 for additional information;
- the normative Annex G has been modified to outline basic guidance for installation, use and disposal of covering films.

This document (EN 13206:2025) 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.

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.