SLOVENSKI STANDARD
SIST EN ISO 15985:2018

01-februar-2018

Polimerni materiali - Ugotavljanje dokončne anaerobne biodegradacije v pogojih anaerobne razgradnje pri visokem deležu trdnih snovi - Metoda z analizo sproščenega bioplina (ISO 15985:2014)

Plastics - Determination of the ultimate anaerobic biodegradation under high-solids anaerobic-digestion conditions - Method by analysis of released biogas (ISO 15985:2014)

iTeh STANDARD PREVIEW
(standards.iteh.ai)

Kunststoffe - Bestimmung der vollständigen anaeroben biologischen Abbaubarkeit unter anaeroben High-Solid-Aufschlussbedingungen - Verfahren mittels Analyse des freigesetzten Biogases (ISO 15985:2014)

SIST EN ISO 15985:2018
https://standards.iteh.ai/catalog/standards/sist/d444561a-b955-4731-bfa2-
[illegible]

Plastiques - Évaluation de la biodégradation anaérobie ultime dans des conditions de digestion anaérobie à teneur élevée en solides - Méthode par analyse du biogaz libéré (ISO 15985:2014)

Ta slovenski standard je istoveten z: **EN ISO 15985:2017**

ICS:

83.080.01	Polimerni materiali na splošno	Plastics in general

SIST EN ISO 15985:2018 **en,fr,de**

2003-01.Slovenski inštitut za standardizacijo. Razmnoževanje celote ali delov tega standarda ni dovoljeno.

SIST EN ISO 15985:2018

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN ISO 15985:2018
https://standards.iteh.ai/catalog/standards/sist/d444561a-b955-4731-bfa2-8cae213c3d7a/sist-en-iso-15985-2018

SIST EN ISO 15985:2018

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 15985

December 2017

ICS 83.080.01

English Version

Plastics - Determination of the ultimate anaerobic biodegradation under high-solids anaerobic-digestion conditions - Method by analysis of released biogas (ISO 15985:2014)

Plastiques - Évaluation de la biodégradation anaérobie ultime dans des conditions de digestion anaérobie à teneur élevée en solides - Méthode par analyse du biogaz libéré (ISO 15985:2014)

Kunststoffe - Bestimmung der vollständigen anaeroben biologischen Abbaubarkeit unter anaeroben High-Solid-Aufschlussbedingungen - Verfahren mittels Analyse des freigesetzten Biogases (ISO 15985:2014)

This European Standard was approved by CEN on 17 October 2017.

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.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

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.

SIST EN ISO 15985:2018
https://standards.iteh.ai/catalog/standards/sist/d444561a-b955-4731-bfa2-8cae213c3d7a/sist-en-iso-15985-2018

CEN members are the national standards bodies of 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 United Kingdom.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

© 2017 CEN All rights of exploitation in any form and by any means reserved worldwide for CEN national Members.

Ref. No. EN ISO 15985:2017 E

SIST EN ISO 15985:2018

Contents

Page

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN ISO 15985:2018
https://standards.iteh.ai/catalog/standards/sist/d444561a-b955-4731-bfa2-8cae213c3d7a/sist-en-iso-15985-2018

SIST EN ISO 15985:2018

European foreword

The text of ISO 15985:2014 has been prepared by Technical Committee ISO/TC 61 “Plastics” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 15985:2017 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 June 2018, and conflicting national standards shall be withdrawn at the latest by June 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.

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

iTeh STANDARD PREVIEW

The text of ISO 15985:2014 has been approved by CEN as EN ISO 15985:2017 without any modification.

(standards.iteh.ai)

SIST EN ISO 15985:2018
https://standards.iteh.ai/catalog/standards/sist/d444561a-b955-4731-bfa2-8cae213c3d7a/sist-en-iso-15985-2018

SIST EN ISO 15985:2018

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN ISO 15985:2018
https://standards.iteh.ai/catalog/standards/sist/d444561a-b955-4731-bfa2-8cae213c3d7a/sist-en-iso-15985-2018

SIST EN ISO 15985:2018

INTERNATIONAL STANDARD

ISO 15985

Second edition
2014-05-01

Plastics — Determination of the ultimate anaerobic biodegradation under high-solids anaerobic-digestion conditions — Method by analysis of released biogas

Plastiques — Évaluation de la biodégradation anaérobie ultime dans des conditions de digestion anaérobie à teneur élevée en solides — Méthode par analyse du biogaz libéré

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN ISO 15985:2018
https://standards.iteh.ai/catalog/standards/sist/d444561a-b955-4731-bfa2-8cae213c3d7a/sist-en-iso-15985-2018

Reference number
ISO 15985:2014(E)

© ISO 2014

SIST EN ISO 15985:2018

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN ISO 15985:2018
https://standards.iteh.ai/catalog/standards/sist/d444561a-b955-4731-bfa2-8cae213c3d7a/sist-en-iso-15985-2018

COPYRIGHT PROTECTED DOCUMENT

© ISO 2014

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

 © ISO 2014 – All rights reserved

SIST EN ISO 15985:2018

Contents

Page

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN ISO 15985:2018
https://standards.iteh.ai/catalog/standards/sist/d444561a-b955-4731-bfa2-8cae213c3d7a/sist-en-iso-15985-2018

© ISO 2014 – All rights reserved

SIST EN ISO 15985:2018

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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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 meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

The committee responsible for this document is ISO/TC 61, *Plastics*, Subcommittee SC 5, *Physical-chemical properties*.

SIST EN ISO 15985:2018
https://standards.iteh.ai/catalog/standards/sist/...
.../sist-en-iso-15985-2018

This second edition cancels and replaces the first edition (ISO 15985:2004). It also incorporates the Technical Corrigendum ISO 15985:2004/Cor.1:2007.

The main changes are:

a) requirements regarding disintegration removed in the whole document;

b) units added where necessary;

c) bibliography updated.

© ISO 2014 – All rights reserved

SIST EN ISO 15985:2018

Introduction

New types of plastic are being developed in which biodegradability is a specifically sought-for characteristic. These plastics and derived products can be added to or used as feedstock for biological recycling and recovery in aerobic composting plants or anaerobic biogasification plants. To make sure these plastics are fit for biological recycling, their biodegradability must be demonstrated, preferably by standard test methods.

Standard test methods which determine the degree of biodegradation under aerobic, high-solids conditions have been developed (e.g. ISO 14855-1 and ISO 14855-2). However, it is well known from the literature that the degree of biodegradation can differ significantly depending on the environmental conditions such as the presence or the absence of oxygen (aerobic or anaerobic). To have a complete understanding of the biodegradation characteristics of a plastic under these different environmental conditions, various methods are required.

This International Standard specifies a method for the determination of the ultimate anaerobic biodegradation of plastic materials under high-solids conditions. This is representative of systems for the anaerobic biogasification of the organic fraction of municipal solid waste. Another method for determining the degree of anaerobic biodegradation is ISO 11734. However, this method is designed for soluble test materials in aqueous test conditions and at low concentrations (typically detergents) which is not typical of plastics.

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN ISO 15985:2018
https://standards.iteh.ai/catalog/standards/sist/d444561a-b955-4731-bfa2-8cae213c3d7a/sist-en-iso-15985-2018

© ISO 2014 – All rights reserved