



SLOVENSKI STANDARD SIST EN ISO 6259-1:2015

01-julij-2015

Nadomešča:
SIST EN ISO 6259-1:2002

Plastomerne cevi - Ugotavljanje nateznih lastnosti - 1. del: Splošna preskusna metoda (ISO 6259-1:2015)

Thermoplastics pipes - Determination of tensile properties - Part 1: General test method (ISO 6259-1:2015)

Rohre aus Thermoplasten - Bestimmung der Eigenschaften im Zugversuch - Teil 1: Allgemeines Prüfverfahren (ISO 6259-1:2015)

Tubes en matières thermoplastiques - Détermination des caractéristiques en traction - Partie 1: Méthode générale d'essai (ISO 6259-1:2015)

Ta slovenski standard je istoveten z: EN ISO 6259-1:2015

ICS:

23.040.20 Cevi iz polimernih materialov Plastics pipes

SIST EN ISO 6259-1:2015

en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 6259-1:2015](#)

[https://standards.iteh.ai/catalog/standards/sist/3ec5be90-2645-48ae-bd22-
caa46ff67e68/sist-en-iso-6259-1-2015](https://standards.iteh.ai/catalog/standards/sist/3ec5be90-2645-48ae-bd22-
caa46ff67e68/sist-en-iso-6259-1-2015)

EUROPEAN STANDARD

EN ISO 6259-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2015

ICS 23.040.20

Supersedes EN ISO 6259-1:2001

English Version

Thermoplastics pipes - Determination of tensile properties - Part 1: General test method (ISO 6259-1:2015)

Tubes en matières thermoplastiques - Détermination des caractéristiques en traction - Partie 1: Méthode générale d'essai (ISO 6259-1:2015)

Rohre aus Thermoplasten - Bestimmung der Eigenschaften im Zugversuch - Teil 1: Allgemeines Prüfverfahren (ISO 6259-1:2015)

This European Standard was approved by CEN on 12 December 2014.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

[SIST EN ISO 6259-1:2015](https://standards.iteh.ai/catalog/standards/sist/3ec5be90-2645-48ae-bd22-caa46ff67e68/sist-en-iso-6259-1-2015)

<https://standards.iteh.ai/catalog/standards/sist/3ec5be90-2645-48ae-bd22-caa46ff67e68/sist-en-iso-6259-1-2015>



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

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

Contents

Page

Foreword.....3

**iTeh STANDARD PREVIEW
(standards.iteh.ai)**

[SIST EN ISO 6259-1:2015](https://standards.iteh.ai/catalog/standards/sist/3ec5be90-2645-48ae-bd22-caa46ff67e68/sist-en-iso-6259-1-2015)

<https://standards.iteh.ai/catalog/standards/sist/3ec5be90-2645-48ae-bd22-caa46ff67e68/sist-en-iso-6259-1-2015>

Foreword

This document (EN ISO 6259-1:2015) has been prepared by Technical Committee ISO/TC 138 "Plastics pipes, fittings and valves for the transport of fluids" in collaboration with Technical Committee CEN/TC 155 "Plastics piping systems and ducting systems" the secretariat of which is held by NEN.

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 October 2015, and conflicting national standards shall be withdrawn at the latest by October 2015.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 6259-1:2001.

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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

iTeh STANDARD PREVIEW
(standards.iteh.ai)

The text of ISO 6259-1:2015 has been approved by CEN as EN ISO 6259-1:2015 without any modification.

[SIST EN ISO 6259-1:2015](https://standards.iteh.ai/catalog/standards/sist/3ec5be90-2645-48ae-bd22-caa46ff67e68/sist-en-iso-6259-1-2015)

<https://standards.iteh.ai/catalog/standards/sist/3ec5be90-2645-48ae-bd22-caa46ff67e68/sist-en-iso-6259-1-2015>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 6259-1:2015](#)

<https://standards.iteh.ai/catalog/standards/sist/3ec5be90-2645-48ae-bd22-caa46ff67e68/sist-en-iso-6259-1-2015>

INTERNATIONAL
STANDARD

ISO
6259-1

Second edition
2015-04-01

**Thermoplastics pipes —
Determination of tensile properties —
Part 1:
General test method**

*Tubes en matières thermoplastiques — Détermination des
caractéristiques en traction*

iTeh STANDARD PREVIEW
(standards.iteh.ai)

Partie 1: Méthode générale d'essai

SIST EN ISO 6259-1:2015

<https://standards.iteh.ai/catalog/standards/sist/3ec5be90-2645-48ae-bd22-caa46ff67e68/sist-en-iso-6259-1-2015>



Reference number
ISO 6259-1:2015(E)

© ISO 2015

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 6259-1:2015

<https://standards.iteh.ai/catalog/standards/sist/3ec5be90-2645-48ae-bd22-caa46ff67e68/sist-en-iso-6259-1-2015>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2015

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

Contents

	Page
Foreword.....	iv
Introduction.....	v
1 Scope.....	1
2 Normative reference.....	1
3 Terms and definitions.....	1
3.1 Geometric definitions.....	1
3.2 Definitions related to material characteristics.....	3
4 Principle.....	3
5 Apparatus.....	3
6 Test Pieces.....	4
6.1 Type of the test piece.....	4
6.2 Preparation of test pieces.....	4
6.2.1 Sampling from the pipe.....	4
6.2.2 Selection of test pieces.....	5
6.3 Checking test pieces.....	6
7 Conditioning.....	6
8 Test speed.....	6
9 Procedure.....	6
10 Expression of results.....	7
10.1 Stress at yield.....	7
10.2 Elongation at break.....	7
10.3 Statistical parameters.....	7
10.4 Retests.....	7
11 Test report.....	8
Bibliography.....	9

ISO 6259-1:2015(E)

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](#).

The committee responsible for this document is ISO/TC 138, *Plastics pipes, fittings, and valves for the transport of fluids*, Subcommittee SC 5, *General properties of pipes, fittings, and valves of plastic materials and their accessories — Test methods and basic specifications*.

This second edition cancels and replaces the first edition (ISO 6259-1:1997), which has been technically revised.

ISO 6259 consists of the following parts, under the general title *Thermoplastics pipes — Determination of tensile properties*:

- *Part 1: General test method*
- *Part 2: Pipes made of unplasticized poly(vinyl chloride) (PVC-U), chlorinated poly (vinyl chloride) (PVC-C), and high-impact poly (vinyl chloride) (PVC-HI)*
- *Part 3: Polyolefin pipes*

Introduction

This part of ISO 6259 specifies a short-term tensile test method for determining the tensile properties of thermoplastics pipes.

It can provide data for further testing for the purpose of research and development.

It cannot be regarded as significant for applications in which the conditions of application of the force differ considerably with those in this test method, such as applications requiring the appropriate impact, creep, and fatigue tests.

The tests of tensile properties are intended to be principally regarded as tests of material in the form of pipe. The results can be useful as a material process control test but are not a quantitative assessment of long-term pipe performance.

ISO 6259 has been drawn up on the basis of ISO 527.^{[1][2]}

For ease of use, it has been thought preferable to draw up a complete document that can be used for determining the tensile properties of thermoplastics pipes. For greater detail, reference can be made to ISO 527.^{[1][2]}

However, let it be noted that ISO 527^{[1][2]} is applicable to materials in sheet form, whereas ISO 6259 is applicable to materials in pipe form.

As it was considered essential to test the pipes as supplied, i.e. without reduction in thickness, difficulties are those in the choice of test piece.

ISO 527^{[1][2]} specifies test pieces a few millimetres thick, whereas the thickness of a pipe can be in excess of 50 mm. This is why certain changes have been made on this point.

For thin-walled pipes, the test piece can be obtained by die cutting, while for thick pipes, it can be obtained only by machining.

At present, ISO 6259 comprises three parts. The first part gives the general conditions under which the tensile properties of thermoplastics pipes are to be determined. The other two parts provide, respectively, particular information on the execution of tests on pipe made from different materials (see the Foreword).

The basic specifications for the various materials are given in informative annexes in the relevant parts.