

## SLOVENSKI STANDARD oSIST prEN 12106:2024

01-september-2024

Cevni sistemi iz polimernih materialov - Polietilen (PE), zamreženi polietilen (PE-X) in cevi iz nemehčanega poliamida (PA-U) - Metoda za preskus odpornosti proti notranjemu tlaku po izvedenem stiskanju cevi (squeeze-of)

Plastics piping systems - Polyethylene (PE), crosslinked polyethylene (PE-X) and unplasticized polyamide (PA-U) pipes - Test method for the resistance to internal pressure after application of squeeze-off

Kunststoff-Rohrleitungssysteme - Rohre aus Polyethylen (PE) - Bestimmung der Widerstandsfähigkeit gegen Innendruck nach Abquetschen

Systèmes de canalisations en plastique - Tubes en polyéthylène (PE) - Méthode d'essai de résistance à la pression interne après application de l'écrasement

https: Ta slovenski standard je istoveten z: 1440 prEN 12106 2003-bf46656ab9e9/osist-pren-12106-2024

ICS:

23.040.20 Cevi iz polimernih materialov Plastics pipes

oSIST prEN 12106:2024 en,fr,de

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### EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

# DRAFT prEN 12106

May 2024

ICS 23.040.20

Will supersede EN 12106:1997

#### **English Version**

Plastics piping systems - Polyethylene (PE), crosslinked polyethylene (PE-X) and unplasticized polyamide (PA-U) pipes - Test method for the resistance to internal pressure after application of squeeze-off

Systèmes de canalisations en plastique - Tubes en polyéthylène (PE) - Méthode d'essai de résistance à la pression interne après application de l'écrasement

Kunststoff-Rohrleitungssysteme - Rohre aus Polyethylen (PE) - Bestimmung der Widerstandsfähigkeit gegen Innendruck nach Abquetschen

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 155.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CEN 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.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

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#### prEN 12106:2024 (E)

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#### **European foreword**

This document (prEN 12106:2024) has been prepared by Technical Committee CEN/TC 155 "Plastics piping systems and ducting systems", the secretariat of which is held by NEN.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 12106:1997.

prEN 12106:2024 includes the following significant technical changes with respect to EN 12106:1997:

- PA, PE-X and PE 100-RC materials with test parameters have been added;
- ISO 1167-1 and ISO 1167-2 are referenced for the pipe hydrostatic pressure test in place of EN 921 which has been withdrawn.

This document is one of a series of standards on test methods which support System Standards for plastics piping systems and ducting systems.

The material-dependent parameters and/or performance requirements are incorporated in the System Standard(s) concerned.

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#### prEN 12106:2024 (E)

#### 1 Scope

This document specifies a method to determine the resistance to internal pressure of polyethylene (PE), crosslinked polyethylene (PE-X) and unplasticized (PA-U) pipes to verify the condition of the pipe after being subjected to a squeeze-off procedure.

The equipment and procedure used to prepare the test samples and test parameters are given in this document, i.e.:

- a) the diameter and series of the pipe to be tested (see 6.1);
- b) the number of test pieces (see 6.2);
- c) the parameters for the hydrostatic strength tests (see 7.6)

NOTE 1 Further information on the squeeze-off procedure is given in EN 12007-2 and ISO/TS 10839 for polyethylene, and CEN/TS 12007-6 for unplasticized polyamide.

NOTE 2 The squeeze-off procedure is specified to limit gas flow to allow maintenance, repair or to make network connections. Squeeze-off is used in an emergency for pipes carrying other media.

#### 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 ISO 1167-1, Thermoplastics pipes, fittings and assemblies for the conveyance of fluids — Determination of the resistance to internal pressure — Part 1: General method (ISO 1167-1)

EN ISO 1167-2, Thermoplastics pipes, fittings and assemblies for the conveyance of fluids — Determination of the resistance to internal pressure — Part 2: Preparation of pipe test pieces (ISO 1167-2)

#### 3 Terms and definitions

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For the purposes of this document, the terms and definitions given in ISO 472 and ISO 1043-1 and the 06-2024 following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- IEC Electropedia: available at <a href="https://www.electropedia.org/">https://www.electropedia.org/</a>
- ISO Online browsing platform: available at https://www.iso.org/obp

#### 3.1 Terms related to geometry

#### 3.1.1

#### nominal size

DN

numerical designation of the size of a component, which is a convenient round number approximately equal to the manufacturing dimension

Note 1 to entry: It is expressed in millimetres (mm).