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**Cevni sistemi iz polimernih materialov za oskrbo s plinastimi gorivi - Polietilen (PE) - 1. del: Splošno**

Plastics piping systems for the supply of gaseous fuels - Polyethylene (PE) - Part 1: General

Kunststoff-Rohrleitungssysteme für die Gasversorgung - Polyethylen (PE) - Teil 1: Allgemeines

Systèmes de canalisations en plastique pour la distribution de combustibles gazeux - Polyéthylène (PE) - Partie 1 : Généralités

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**ICS:**

|           |                                                      |                                               |
|-----------|------------------------------------------------------|-----------------------------------------------|
| 83.140.30 | Polimerne cevi in fitingi za snovi, ki niso tekočine | Plastics pipes and fittings for non fluid use |
| 91.140.40 | Sistemi za oskrbo s plinom                           | Gas supply systems                            |

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**Plastics piping systems for the supply of gaseous fuels -  
Polyethylene (PE) - Part 1: General**

Systèmes de canalisations en plastique pour la  
distribution de combustibles gazeux - Polyéthylène  
(PE) - Partie 1 : Généralités

Kunststoff-Rohrleitungssysteme für die Gasversorgung  
- Polyethylen (PE) - Teil 1: Allgemeines

This European Standard was approved by CEN on 11 August 2025.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
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## European foreword

This document (EN 1555-1:2025) has been prepared by Technical Committee CEN/TC 155 “Plastics piping 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of an identical text or by endorsement, at the latest by April 2026, and conflicting national standards shall be withdrawn at the latest by April 2026.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 1555-1:2021.

The main changes are as follows:

- terms and definitions have been distributed over EN 1555-1, EN 1555-2 and EN 1555-3;
- a conversion and normalisation step has been included to the requirement for the CRB;
- EN ISO 1183-3 has been introduced as alternative test method for the compound density;
- recommended stress ranges for the CRB and stress levels for the AFNCT have been added;
- the strip-bend test (ISO 21751) and the crush test (ISO 13955) have been added as alternative to ISO 13954;
- a requirement for the electrofusion compatibility has been added;
- information related to the suitability of PE pipe systems for 100 % hydrogen and its admixtures with natural gas has been added.

SIST EN 1555-1:2025

System Standards are based on the results of the work being undertaken in ISO/TC 138 “Plastics pipes, fittings and valves for the transport of fluids”, which is a Technical Committee of the International Organization for Standardization (ISO).

They are supported by separate standards on test methods to which references are made throughout the System Standard.

The System Standards are consistent with general standards on functional requirements and on recommended practice for installation.

EN 1555 consists of the following parts:

- EN 1555-1, *Plastics piping systems for the supply of gaseous fuels — Polyethylene (PE) — Part 1: General* (this document);
- EN 1555-2, *Plastics piping systems for the supply of gaseous fuels — Polyethylene (PE) — Part 2: Pipes*;
- EN 1555-3, *Plastics piping systems for the supply of gaseous fuels — Polyethylene (PE) — Part 3: Fittings*;
- EN 1555-4, *Plastics piping systems for the supply of gaseous fuels — Polyethylene (PE) — Part 4: Valves*;
- EN 1555-5, *Plastics piping systems for the supply of gaseous fuels — Polyethylene (PE) — Part 5: Fitness for purpose of the system*;