

ISO 4427-2:2019 (E)

Plastics piping systems for water supply, and for drainage and sewerage under pressure — Polyethylene (PE) — Part 2: Pipes

Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Symbols and abbreviated terms
5	Material
5.1	Compound
5.2	Identification compound
5.3	Reprocessed and recycled material
6	General characteristics
6.1	Appearance
6.2	Colour
6.3	Effect on water quality
7	Geometrical characteristics
7.1	Measurements
7.2	Mean outside diameter and out-of-roundness (ovality)
7.3	Wall thicknesses and their tolerances
7.4	Coiled pipe
7.5	Lengths
8	Mechanical characteristics
8.1	Conditioning
8.2	Requirements
8.3	Retest in case of failure at 80 °C
9	Physical characteristics
9.1	Conditioning
9.2	Requirements
10	Chemical characteristics of pipes in contact with chemicals
11	Performance requirements
12	Marking
12.1	General
12.2	Minimum required marking of pipes
Annex A	(normative) Pipes with co-extruded layers
A.1	General
A.2	Material
A.3	Geometrical characteristics
A.4	Pipe with coloured identification layer
A.4.1	Geometrical characteristics
A.4.2	Mechanical characteristics

- A.4.3 Physical characteristics
- A.4.4 Marking
- A.5 Delamination
- A.6 Integrity of the structure

Annex B (normative) Pipes with peelable layer

- B.1 General
- B.2 Geometrical characteristics
- B.3 Mechanical characteristics
- B.4 Physical characteristics
- B.5 Peelable layer adhesion
- B.6 Marking

Annex C (informative) Relationship between PN, MRS, S and SDR

Page count: 20