

ISO 15875-2:2025-10 (E)

Plastics piping systems for hot and cold water installations - Crosslinked polyethylene (PE-X) - Part 2: Pipes

Contents		Page
Foreword		v
Introduction		vii
1	Scope	1
2	Normative references	1
3	Terms, definitions and symbols	2
3.1	Terms and definitions	2
3.2	Symbols	4
4	Generic requirements, instructions and explanations	5
4.1	Designation PE-X	5
4.2	Application classes, design pressures and pipe dimension classes restrictions	5
4.3	Application classes -- Responsibility of the purchaser or specifier	5
4.4	Use of the parts of the ISO 15875 series	5
4.5	PE-X pipes provided with a thin barrier layer	5
4.6	Completeness of tests	5
4.7	Test result interchangeability restriction	5
5	Material	6
5.1	Pipe material	6
5.2	Evaluation of LPL-curves	6
5.3	Reference lines	7
5.4	Influence on water intended for human consumption	9
5.5	Barrier layer material	9
5.5.1	General	9
5.5.2	Thermal stability of the barrier layer material	9
5.5.3	Thermal stability of the adhesive layer material	9
5.5.4	Thermal stability of the outer layer material	9
6	General characteristics	10
6.1	Pipe construction	10
6.2	Appearance	10
6.3	Opacity	10
6.4	Oxygen permeability	10
7	Geometrical characteristics	10
7.1	Pipes without barrier layer(s) - General	10
7.2	Pipes without barrier layer - Dimensions of pipes	11
7.2.1	Outside diameters	11
7.2.2	Wall thicknesses and their tolerances	11
7.3	Pipes with barrier layer -- Dimensions of pipes	14
7.3.1	General	14
7.3.2	Option I - Dimensional integration of the barrier layer	14
7.3.3	Option II - Barrier layer on top	14
8	Mechanical characteristics	15
9	Physical and chemical characteristics	16

10	Performance requirements	17
11	Marking	17
11.1	General requirements	17
11.2	Minimum required marking	17
Annex A (normative)	Pipe construction	18
Annex B (normative)	Derivation of $S_{calc,max}$ values	21
Annex C (normative)	Proof of the thermal stability of the barrier layer material resp. adhesive layer material resp. outer layer material--Test procedure	23
Bibliography		26