

ISO 17484-1:2006-10 (E)

Plastics piping systems - Multilayer pipe systems for indoor gas installations with a maximum operating pressure up to and including 5 bar (500 kPa) - Part 1: Specifications for systems

Contents		Page
Foreword		v
Introduction		vi
1	Scope	1
2	Normative references	2
3	Terms, definitions and symbols	3
3.1	Structural definitions	3
3.2	Geometrical definitions	3
3.3	Definitions related to pressure	4
3.4	Materials definitions	4
3.5	Definitions related to material characteristics	5
3.6	Terms related to service conditions	5
4	Requirements for the system	6
4.1	Pressure drop	6
4.2	Bending	6
4.3	Corrosive conditions	6
5	Pipes	6
5.1	Material	6
5.2	General characteristics	7
5.3	Dimensions of pipes	7
5.4	Mechanical properties	8
5.5	Physical properties	9
6	Fittings	10
6.1	General	10
6.2	Materials	11
6.3	Dimensions	11
6.4	Transition fittings	11
6.5	Rubber rings	11
7	Fitness for purpose	11
7.1	Diameter classes	11
7.2	Relation between maximum operating pressure and qualification test pressure	11
7.3	Requirements	12
8	Marking and documentation	13
8.1	Legibility	13
8.2	Damage	13
8.3	Minimum marking requirements	13
Annex A (normative) List of the reference product standards		15
Annex B (normative) Test for delamination and strength of the joint line		16

Annex C (normative) Resistance to gas constituents	18
Annex D (normative) Thermal durability of the outer layer of M-pipes	19
Annex E (normative) Adhesion test	21
Annex F (normative) Odour permeability	22
Annex G (normative) Resistance to tensile load on joints	23
Annex H (normative) Crush test on joints	25
Annex I (normative) Impact resistance test on joints	27
Annex J (normative) Thermal cycling test on joints	29
Annex K (normative) Repeated bending test	31
Bibliography	33