

Plastics piping systems for the transport of water intended for human consumption —

Migration assessment

Part 1. Determination of migration values of plastics pipes

The European Standard EN 852-1 : 1996 has the status of a
British Standard

ICS 23.040.20

Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee PRI/61, Plastics piping systems and components, upon which the following bodies were represented:

- British Gas Plc
- British Plastics Federation
- British Plumbing Fittings Manufacturers' Association
- British Valve and Actuator Manufacturers' Association
- Chartered Institution of Water and Environmental Management
- Department of the Environment (British Board of Agrément)
- Department of the Environment (Building Research Establishment)
- Department of the Environment (Property and Buildings Directorate)
- Department of Transport
- Electricity Association
- Federation of Civil Engineering Contractors
- Health and Safety Executive
- Institute of Building Control
- Institute of Materials
- Institution of Civil Engineers
- Institution of Gas Engineers
- National Association of Plumbing, Heating and Mechanical Services Contractors
- Pipeline Industries Guild
- Plastics Land Drainage Manufacturers' Association
- Society of British Gas Industries
- Society of British Water Industries
- Water Companies Association
- Water Services Association of England and Wales

The following bodies were also represented in the drafting of the standard, through subcommittees and panels:

- ERA Technology Ltd.
- Engineering Equipment and Materials Users' Association
- RAPRA Technology Ltd.

This British Standard, having been prepared under the direction of the Sector Board for Materials and Chemicals, was published under the authority of the Standards Board and comes into effect on 15 November 1996

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Amendments issued since publication

Amd. No.	Date	Text affected

The following BSI references relate to the work on this standard:
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National foreword

This British Standard has been prepared by Technical Committee PRI/61 and is the English language version of EN 852-1 : 1996 *Plastics piping systems for the transport of water intended for human consumption — Migration assessment — Part 1: Determination of migration values of plastics pipes*, published by the European Committee for Standardization (CEN).

It is incorporated into BS 2782 *Methods of testing plastics Part 11: Thermoplastics pipes, fittings and valves*, as Method 1122A : 1996, for association with related test methods for plastics materials and plastics piping components.

This test method has been prepared for reference by other standards under preparation by CEN for specification of plastics piping systems and components. It has been implemented to enable experience of the method to be gained and for use for other fresh applications.

It is also for use for the revision or amendment of other national standards as practicable, but it should not be presumed to apply to the purposes of BS 6920 or to any other existing standard or specification which contains or makes reference to a different test method until that standard/specification has been amended or revised to make reference to this method and adjust any requirements as appropriate.

Cross-references

Publication referred to	Corresponding British Standard
ISO 3696 : 1987	BS EN ISO 3696 : 1995 <i>Water for analytical laboratory use — Specification and test methods</i>
ISO 7393-2 : 1985	BS 6068 <i>Water quality</i> Part 2 <i>Physical, chemical and biochemical methods</i> Section 2.26 : 1986 <i>Method for determination of free chlorine and total chlorine : colorimetric method using N,N-diethyl-1,4-phenylenediamine, for routine control purposes</i>

NOTE 1. There is no British Standard identical to EN 1420-1 pending the ratification thereof and its implementation as BS EN 1420-1.

NOTE 2. In equation B.3 the preferred expression for 'tg (½ α)' is 'tan (½ α)'.

NOTE 3. In B.5, to clarify the variables *a* and α , references should have been made in the text to figure B.3 and *a* should be taken to mean the arc length on the inside surface of the pipe segment.

Also in B.5, in the second paragraph and in the two definitions of *A*, reference is made to a 'hatched circle segment', but no hatched area is shown on the figures in EN 852-1 : 1996 as ratified.

Pending issue of a correction, the area *A* should be interpreted as corresponding to the cross-sectional area of the channel provided by the test piece G to contain the relevant liquid when arranged as shown in figure B.1. Hence *A* is the area of the segment of the cross section shown in figure B.3 as bounded by the pipe internal cross section up to the height *h*.

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 10, an inside back cover and a back cover.

Warning note. This British Standard, which is identical with EN 852-1 : 1996, does not necessarily detail all the precautions necessary to meet the requirements of the Health and Safety at Work etc. Act 1974. Attention should be paid to any appropriate safety precautions and the method should be operated only by trained personnel.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

ICS : 23 040 20

Descriptors: Water pipelines, potable water, plastics tubes, tests, estimation, migrations, components

English version

Plastics piping systems for the transport of water intended for human consumption — Migration assessment — Part 1: Determination of migration values of plastics pipes

Systèmes de canalisations plastiques pour le transport d'eau destinée à la consommation humaine — Évaluation de la migration —
Partie 1: Détermination des valeurs de migration des tubes plastiques

Kunststoff-Rohrleitungssysteme für den Transport von Wasser für den menschlichen Verzehr — Bewertung der Migration —
Teil 1: Bestimmung der Migrationswerte von Kunststoff Rohren

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists 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 Central Secretariat has the same status as the official versions.

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