

Plastics piping systems — Multilayer pipes — Determination of the oxygen permeability of the barrier pipe

ICS 23.040.20

National foreword

This British Standard is the UK implementation of ISO 17455:2005, incorporating corrigendum March 2007.

The start and finish of text introduced or altered by corrigendum is indicated in the text by tags. Text altered by ISO corrigendum March 2007 is indicated in the text by **AC1** ~~AC1~~.

The UK participation in its preparation was entrusted by Technical Committee PRI/88, Plastics piping systems, to Subcommittee PRI/88/4, Test methods.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 29 June 2007

© BSI 2010

ISBN 978 0 580 65213 4

Amendments/corrigenda issued since publication

Date	Comments
31 May 2010	Implementation of ISO corrigendum March 2007

INTERNATIONAL STANDARD

ISO
17455

First edition
2005-10-01

Plastics piping systems — Multilayer pipes — Determination of the oxygen permeability of the barrier pipe

*Systèmes de canalisations en plastiques — Tubes multicouches —
Détermination de la perméabilité à l'oxygène de la couche barrière d'un
tube*



Reference number
ISO 17455:2005(E)



Documents

Document Sharing Hub

Contents

Page

Foreword.....	iv
Introduction	v
1 Scope	1
2 Principle	1
3 Terms and definitions.....	1
4 Symbols and abbreviated terms	2
5 Apparatus	3
6 Test piece	4
7 Preconditioning.....	4
8 Calibration of the test assembly	4
9 Preparation for testing	4
10 Measuring procedure	5
11 Calculation of flux.....	7
12 Test report	8
Annex A (informative) Oxygen solubility as a function of temperature	9
Bibliography	10

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 17455 was prepared by Technical Committee ISO/TC 138, *Plastics pipes, fittings and valves for the transport of fluids*, Subcommittee SC 5, *General properties of pipes, fittings and valves of plastic materials and their accessories — Test methods and basic specifications*.