

Thermoplastics pipes for the conveyance of fluids — Determination of resistance to rapid crack propagation (RCP) — Full-scale test

The European Standard EN ISO 13478:1997 has the status of a British Standard

ICS 23.040.20

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 September 1997

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ISBN 0 580 28014 4

Amendments issued since publication

Amd. No.	Date	Comments

Contents

	Page
National foreword	ii
Foreword	2
Foreword	iii
Text of ISO 13478	1

National foreword

This British Standard is the English language version of EN ISO 13478:1997. It is identical with ISO 13478:1997.

It is incorporated into BS 2782, *Methods of testing plastics*, Part 11: *Thermoplastics pipes, fittings and valves*, as Method 1109R:1997 for association with related test methods for plastics materials and plastics piping components.

The UK participation in its preparation was entrusted to Technical Committee PRI/61, Plastics piping systems and components, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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

Cross-references

Attention is drawn to the fact that CEN and CENELEC Standards normally include an annex which lists normative references to international publications with their corresponding European publications. The British Standards which implement these international or European publications may be found in the BSI Standards Catalogue under the section entitled “International Standards Correspondence Index”, or using the “Find” facility of the BSI Standards Electronic Catalogue.

WARNING NOTE 1. In the light of clause 4, *Principle*, and of the notes 1 and 2 which follow clause 6, the BSI Technical Committee considers that, when setting test parameters in accordance with clause 5, the referring product standard may specify the use of a pipe size, pressurizing gas (or water + air) and test pressure which could result in very substantial energy release on failure, such that not only may failed test piece materials and adjacent gravel be projected accordingly, as indicated in note 1 following 10.2, but that a serious risk of fire or explosion may also arise if the pressurized gas is a fuel gas such as natural gas. The BSI Technical Committee considers that any arrangements made to check conformity of the temperatures of the test fluid, the test pipe or the ligament coolant (see 10.2 and associated notes) or to initiate cracking in accordance with 10.3 should not require personnel to approach the vicinity of the pressurized pipe.

WARNING NOTE 2. This British Standard, which is identical with ISO 13478:1997, 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.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

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

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN ISO title page, page 2, the ISO title page, pages ii to iv, pages 1 to 8 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

English version

Thermoplastics pipes for the conveyance of fluids — Determination of resistance to rapid crack propagation (RCP) — Full-scale test (FST)

(ISO 13478:1997)

Tubes en matières thermoplastiques pour le transport des fluides — Détermination de la résistance à la propagation rapide de la fissure (RCP) — Essai grandeur nature (FST) (ISO 13478:1997)

Rohre aus Thermoplasten für den Transport von Fluiden — Bestimmung des Widerstandes gegenüber schneller Rißfortpflanzung — Praxistest (FST) (ISO 13478:1997)

This European Standard was approved by CEN on 1997-03-18. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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.

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Foreword

The text of the International Standard ISO 13478:1997 has been prepared by Technical Committee ISO/TC 138 “*Plastics pipes, fittings and valves for the transport of fluids*” in collaboration with Technical Committee CEN/TC 155 “*Plastics piping systems and ducting systems*”, the secretariat of which is held by NNI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by November 1997, and conflicting national standards shall be withdrawn at the latest by November 1997.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 13478:1997 was approved by CEN as a European Standard without any modification.