

**Vedelike teisaldamiseks ettenähtud  
termoplasttorud. Pragude kiirele levimisele  
(RCP) vastupidavuse kindlaksmääramine.  
Täisskaala katse (FST)**

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

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 13478:1999 sisaldab Euroopa standardi EN ISO 13478:1997 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 12.12.1999 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 13478:1999 consists of the English text of the European standard EN ISO 13478:1997.</p> <p>This document is endorsed on 12.12.1999 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p><b>Käsitlusala:</b> Käesolev standard esitab täisskaala testimismeetodi termoplasttorus tekkinud pragunemise paigalhoidmise või leviku kindlaksmääramiseks kindlal temperatuuril sisemise surve juures. Standard kehtib gaaside või vedelikega varustamiseks ettenähtud termoplasttorude funktsioneerimise hindamiseks. Vedelikutorude korral võib torus olla ka õhku.</p>	<p><b>Scope:</b></p>
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ICS 23.040.20

**Võtmesõnad:** kindlaksmääramine, plasttorud, pragunemine (murdumine), pragunemismistugevus, pragunemistestid, prao levimine, termoplastvaigud, testimine, testimisaruanne, torud, vedelikutorustikud

ICS 23.040.20

Descriptors: Pipes, thermoplastics, resistance to crack propagation, testing.

**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.

The European Standards exist 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.

CEN members are the national standards bodies of Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

**CEN**

European Committee for Standardization  
Comité Européen de Normalisation  
Europäisches Komitee für Normung

**Central Secretariat: rue de Stassart 36, B-1050 Brussels**

## Foreword

International Standard

ISO 13478 : 1997 Thermoplastics pipes for the conveyance of fluids – Determination of resistance to rapid crack propagation (RCP) – Full-scale test (FST),

which was prepared by ISO/TC 138 'Plastics pipes, fittings and valves for the transport of fluids' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 155 'Plastics piping systems and ducting systems'.

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

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the 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.

## 1 Scope

This International Standard specifies a full-scale method of test for determination of arrest or propagation of a crack initiated in a thermoplastics pipe at a specified temperature and internal pressure.

It is applicable to the assessment of the performance of thermoplastics pipes intended for the supply of gases or liquids, in the latter case when air may also be present in the pipe.

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 1167:1996, *Thermoplastics pipes for the conveyance of fluids — Resistance to internal pressure — Test method.*

ISO 3126:1974, *Plastics pipes — Measurement of dimensions.*

ISO 11922-1:1997, *Thermoplastics pipes for the conveyance of fluids — Dimensions and tolerances — Part 1: Metric series.*

## 3 Definitions

For the purposes of this International Standard, the definitions given in ISO 11922-1 apply.

## 4 Principle

A thermoplastics pipe, maintained at a specified temperature and containing a fluid at a specified test pressure, is subjected to an impact designed to initiate a crack.