Plastics piping systems for hot and cold water or this a provious denotes the state of the installations - Polypropylene (PP) - Part 2: Pipes (ISO 15874-2:2013)



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 15874-2:2 sisaldab Euroopa standardi EN ISO 15874-2:2 ingliskeelset teksti.	
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EUROPEAN STANDARD

EN ISO 15874-2

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English Version

Plastics piping systems for hot and cold water installations - Polypropylene (PP) - Part 2: Pipes (ISO 15874-2:2013)

Systèmes de canalisations en plastique pour les installations d'eau chaude et froide - Polypropylène (PP) - Partie 2: Tubes (ISO 15874-2:2013)

Kunststoff-Rohrleitungssysteme für die Warm- und Kaltwasserinstallation - Polypropylen (PP) - Teil 2: Rohre (ISO 15874-2:2013)

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Foreword

This document (EN ISO 15874-2:2013) has been prepared by Technical Committee CEN/TC 155 "Plastics piping systems and ducting systems" the secretariat of which is held by NEN, in collaboration with Technical Committee ISO/TC 138 "Plastics pipes, fittings and valves for the transport of fluids".

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of an identical text or by endorsement, at the latest by August 2013, and conflicting national standards shall be withdrawn at the latest by August 2013.

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Introduction

This part of ISO 15874 specifies the requirements for a piping system when made from polypropylene (PP). The piping system is intended to be used for hot and cold water installations.

Regarding potential adverse effects on the quality of water intended for human consumption, caused by the product covered by ISO 15874

- no information is provided as to whether the product can be used without restriction;
- existing national regulations concerning the use and/or the characteristics of this product remain in force.

Requirements and test methods for material and components, other than pipes, are specified in ISO 15874-1 and ISO 15874-3. Characteristics for fitness for purpose (mainly for joints) are covered in ISO 15874-5. ISO/TS 15874-7 gives guidance for the assessment of conformity.

This part of ISO 15874 specifies the characteristics of pipes.

At the date of publication of this part of ISO 15874, the following system International Standards for piping systems of other plastics materials used for the same application are

- ISO 15875, Plastics piping systems for hot and cold water installations Crosslinked polyethylene (PE-X)
- ISO 15876, Plastics piping systems for hot and cold water installations Polybutylene (PB)
- ISO 15877, Plastics piping systems for hot and cold water installations Chlorinated poly(vinyl chloride) (PVC-C)
- ISO 22391, Plastics piping systems for hot and cold water installations Polyethylene of raised temperature resistance (PE-RT)

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Plastics piping systems for hot and cold water installations — Polypropylene (PP) —

Part 2: Pipes

Scope

This part ISO 15874 specifies the requirements of pipes made from polypropylene (PP) for piping systems intended to be used for hot and cold water installations within buildings for the conveyance of water whether or not intended for human consumption (domestic systems) and for heating systems under operating pressures and temperatures appropriate to the class of application (see ISO 15874-1:2013, Table 1).

This part of ISO 15874 covers a range of service conditions (application classes), design pressures and pipe dimension classes. For values of T_D , T_{max} and T_{mal} in excess of those in Table 1 of ISO 15874-1:2013 do not apply.

NOTE 1 It is the responsibility of the purchaser or specifier to make the appropriate selections from these aspects, taking into account their particular requirements and any relevant national regulations and installation practices or codes.

It also specifies the test parameters for the test methods referred to in this part of ISO 15874.

In conjunction with the other parts of ISO 15874, this part of ISO 15874 is applicable to PP pipes, their joints and to joints with components of PP, other plastics and non-plastics materials intended to be used for hot and cold water installations.

It is applicable to pipes with or without (a) barrier layer(s).

NOTE 2 In the case of plastics pipes provided with a thin barrier layer, e.g. to prevent or greatly diminish the diffusion of gases and the transmission of light into or through the pipe wall, the design stress requirements are totally met by the base polymer (PP).

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1133-1, Plastics — Determination of the melt mass-flow rate (MFR) and the melt volume-flow rate (MVR) of thermoplastics — Part 1: Standard method

ISO 1167-1 Thermoplastics pipes, fittings and assemblies for the conveyance of fluids — Determination of the resistance to internal pressure — Part 1: General method

ISO 1167-2 Thermoplastics pipes, fittings and assemblies for the conveyance of fluids — Determination of the resistance to internal pressure — Part 2: Preparation of pipe test pieces

ISO 2505 Thermoplastics pipes — Longitudinal reversion — Test methods and parameters

ISO 3126 Plastics piping systems — Plastics components — Determination of dimensions

ISO 4065:1996, Thermoplastics pipes — Universal wall thickness table

ISO 7686 Plastics pipes and fittings — Determination of opacity

ISO 9080 Plastics piping and ducting systems — Determination of the long-term hydrostatic strength of thermoplastics materials in pipe form by extrapolation

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