

SLOVENSKI STANDARD

SIST-TS CEN/TS 14758-2:2016

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Nadomešča:

SIST-TS CEN/TS 14758-2:2007

Cevni sistemi iz polimernih materialov za odvodnjavanje in kanalizacijo, ki delujejo po težnostnem principu - Polipropilen z mineralnimi modifikatorji (PP-MD) - 2. del: Smernice za ugotavljanje skladnosti

Plastics piping systems for non-pressure underground drainage and sewerage - Polypropylene with mineral modifiers (PP-MD) - Part 2: Guidance for the assessment of conformity

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Kunststoff-Rohrleitungssysteme für erdverlegte drucklose Abwasserkanäle und -leitungen - Polypropylen mit mineralischen Additiven (PP-MD) - Teil 2: Empfehlungen für die Beurteilung der Konformität

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Systèmes de canalisations en plastique pour les branchements et les collecteurs d'assainissement enterrés sans pression - Polypropylène avec modificateurs minéraux (PP-MD) - Partie 2 : Guide pour l'évaluation de la conformité

Ta slovenski standard je istoveten z: CEN/TS 14758-2:2016

ICS:

23.040.05	Cevovodi za zunanje sisteme za odpadno vodo in njihovi deli	Pipeline and its parts for external sewage systems
93.030	Zunanji sistemi za odpadno vodo	External sewage systems

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English Version

Plastics piping systems for non-pressure underground
drainage and sewerage - Polypropylene with mineral
modifiers (PP-MD) - Part 2: Guidance for the assessment of
conformity

Systèmes de canalisations en plastique pour les
branchements et les collecteurs d'assainissement
enterrés sans pression - Polypropylène avec
modificateurs minéraux (PP-MD) - Partie 2 : Guide
pour l'évaluation de la conformité

Kunststoff-Rohrleitungssysteme für erdverlegte
drucklose Abwasserkanäle und -leitungen -
Polypropylen mit mineralischen Additiven (PP-MD) -
Teil 2: Empfehlungen für die Beurteilung der
Konformität

This Technical Specification (CEN/TS) was approved by CEN on 9 June 2016 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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European foreword

This document (CEN/TS 14758-2:2016) has been prepared by Technical Committee CEN/TC 155 “Plastics piping systems and ducting systems”, the secretariat of which is held by NEN.

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

This document supersedes CEN/TS 14758-2:2007.

EN 14758 consists of the following parts, under the general title *Plastics piping systems for non-pressure underground drainage and sewerage — Polypropylene with mineral modifiers (PP-MD)*:

- *Part 1: Specifications for pipes, fittings and the system*
- *Part 2: Guidance for the assessment of conformity (the present TS)*

According to the CEN/CENELEC Internal Regulations, the national standards organisations of the following countries are bound to announce this Technical Specification: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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Introduction

Figures 1 and 2 are intended to provide general information on the concept of testing and organization of those tests used for the purpose of the assessment of conformity. For each type of test, i.e. type testing (TT), batch release test (BRT), process verification test (PVT), and audit test (AT), this document details the applicable characteristics to be assessed as well as the frequency and sampling of testing.

A typical scheme for the assessment of conformity of materials, pipes, fittings, joints or assemblies by manufacturers is given in Figure 1.

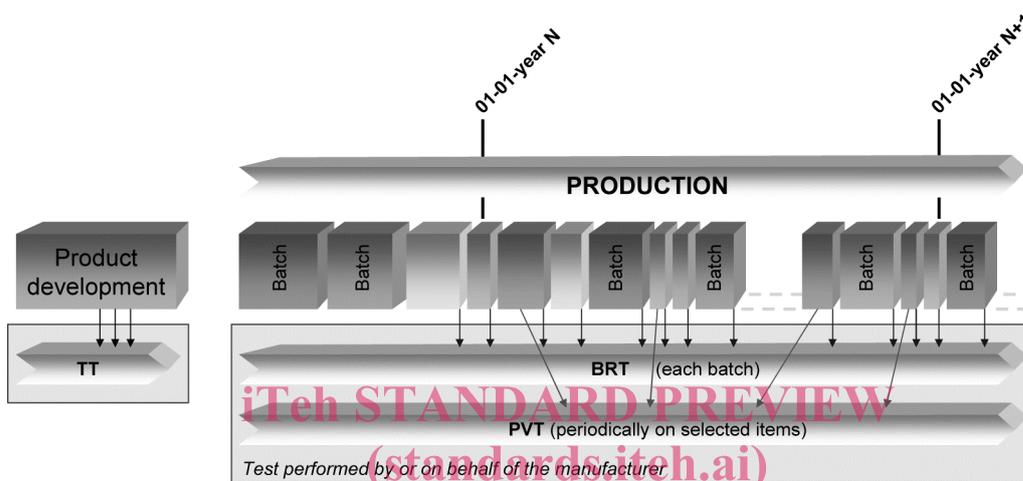


Figure 1 — Typical scheme for the assessment of conformity by a manufacturer

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A typical scheme for the assessment of conformity of materials, pipes, fittings, joints or assemblies by manufacturers, including certification, is given in Figure 2.

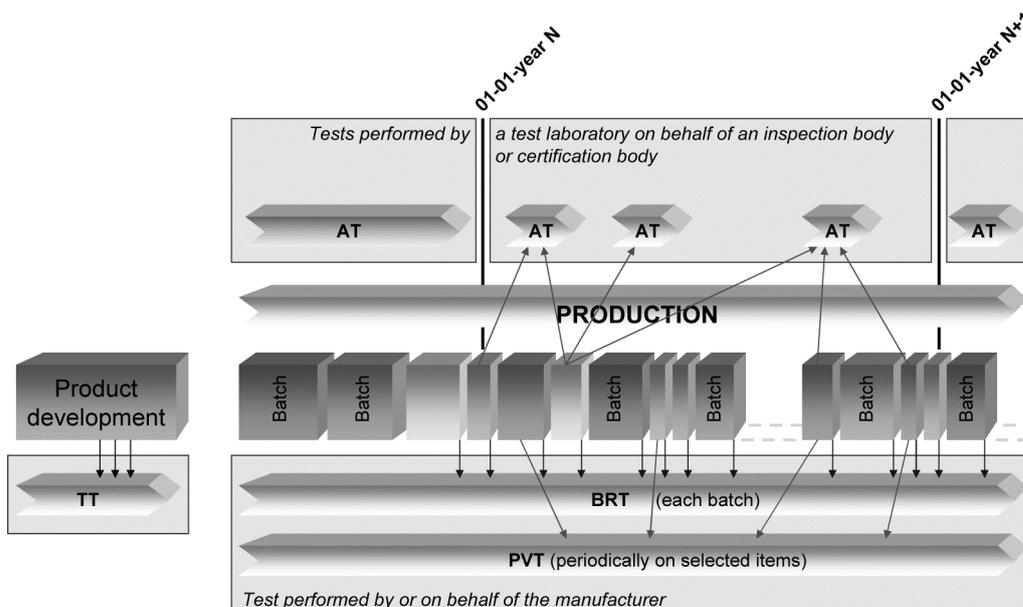


Figure 2 — Typical scheme for the assessment of conformity by a manufacturer, including certification

1 Scope

This Technical Specification gives guidance for the assessment of conformity of materials, products, joints and assemblies in accordance with the applicable part(s) of EN 14758 intended to be included in the manufacturer's quality plan as part of the quality management system and for the establishment of certification procedures.

NOTE In order to help the reader, a basic test matrix is given in Annex A.

In conjunction with EN 14758-1 this document is applicable to solid wall piping systems made of polypropylene modified with mineral(s) (PP-MD) intended to be used for:

- non-pressure underground drainage and sewerage outside the building structure (application area code "U"); and
- non-pressure underground drainage and sewerage for both buried in ground within the building structure (application area code "D") and outside the building structure.

This is reflected in the marking of products by "U" and "UD".

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.

EN 14758-1:2012, *Plastics piping systems for non-pressure underground drainage and sewerage - Polypropylene with mineral modifiers (PP-MD) - Part 1: Specifications for pipes, fittings and the system*

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3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 14758-1 and the following apply.

3.1

certification body

impartial body, governmental or non-governmental, possessing the necessary competence and responsibility to carry out certification of conformity according to given rules of procedure and management

Note 1 to entry: A certification body is preferably compliant with EN ISO/IEC 17021-1 [1].

3.2

inspection body

body, that performs inspection

Note 1 to entry: A body can be an organization or part of an organization.

Note 2 to entry: An inspection body is preferably compliant with EN ISO/IEC 17020 [2].

3.3

testing laboratory

laboratory which measures, tests, calibrates or otherwise determines the characteristics of the performance of materials and products

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Note 1 to entry: In the context of this part of EN 14758, the materials and products can be subjected to type testing, batch release testing, process verification testing, audit testing and witness testing, as applicable.

Note 2 to entry: A testing laboratory is preferably compliant with EN ISO/IEC 17025 [3].

3.4 quality management system

management system to direct and control an organization with regard to quality

Note 1 to entry: Requirements for quality management systems are given in EN ISO 9001 [4].

3.5 quality plan

document setting out the specific quality practices, resources and sequence of activities relevant to a particular product or range of products

3.6 type testing

TT
testing performed to prove that the material, product, joint or assembly is capable of conforming to the requirements given in the relevant standard

Note 1 to entry: The type test results remain valid until there is a change in the material or product or assembly provided that the process verification tests are done regularly.

3.7 batch release test

BRT
test performed by or on behalf of the manufacturer on a batch of materials or products, which has to be satisfactorily completed before the batch can be released

3.8 process verification test

PVT
test performed by or on behalf of the manufacturer on materials, products or joints at specific intervals to confirm that the process continues to be capable of producing products which conform to the requirements given in the relevant standard

Note 1 to entry: Such tests are not required to release batches of materials or products and are carried out as a measure of process control.

3.9 audit test

AT
test performed by a test laboratory on behalf of an inspection body or certification body to confirm that the material, product, joint or assembly continues to conform to the requirements given in the relevant standard and to provide information to assess the effectiveness of the quality management system

3.10 indirect test

IT
test performed by or on behalf of the manufacturer, different from that specified test for that particular characteristic, having previously verified its correlation with the specified test

3.11**witness test****WT**

test accepted by an inspection or a certification body for type testing and/or audit testing, which is carried out by or on behalf of the manufacturer and supervised by a representative of the inspection or certification body, qualified in testing

3.12**material**

generic term for compositions of compounds/formulations grouped by families, expressed by generic names, e.g. polypropylene, stainless steel, brass or EPDM

Note 1 to entry: Definition from European Commission, Directorate-General for Enterprise and Industry, Sub-group on Product Testing Procedures (EC, DG ENT and IND, SG PTP).

3.13**compound/formulation**

clearly defined homogenous mixture of base polymer with additives, i.e. antioxidants, pigments, stabilizers and others, at a dosage level necessary for the processing and the intended use of the final product

3.14**material batch**

clearly identified quantity of a given homogeneous compound/formulation manufactured under uniform conditions and defined and identified by the compound/formulation manufacturer

3.15**product**

pipe, fitting, or valve of a clearly identified type intended to be a part of a piping system which the manufacturer puts on the market

3.16**product batch**

clearly identified collection of products, manufactured consecutively or continuously under the same conditions, using the same compound/formulation conforming to the same specification

Note 1 to entry: The production batch is defined and identified by the product manufacturer.

3.17**lot**

clearly identifiable sub-division of a batch for inspection purposes

3.18**sample**

one or more products drawn from the same production batch or lot, selected at random without regard to their quality

Note 1 to entry: The number of products in the sample is the sample size.

3.19**group**

collection of similar products from which samples are selected for testing purposes

CEN/TS 14758-2:2016 (E)**3.20****component**

product manufactured out of a specific composition compound/formulation, brought to the market as part of another product or as a spare part

3.21**joint**

connection between two products

3.22**assembled product**

assembled final product using two or more single parts

3.23**thermoplastics fabricated fitting**

fitting produced from pipe and/or from injection-moulded fittings by thermoforming, solvent-cementing or welding

3.24**assembly**

product that can be dismantled into a set of components

EXAMPLE A test piece consisting of various products.

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3.25**sampling plan**

specification of the type of sampling to be used combined with the operational specification of the entities or increments to be taken, the samples to be constituted and the measurements or tests to be made

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EXAMPLE A specific plan which indicates the number of units of products or assemblies to be inspected.

3.26**product type**

generic description of a product

EXAMPLE A pipe or fitting or valve or their main parts, of the same design, from a particular compound.

3.27**cavity**

(moulding) space within a mould to be filled to form the moulded product

EXAMPLE That part of an injection mould which gives the form to the injection-moulded product.

4 Abbreviated terms

To avoid misunderstanding, the abbreviations in this clause are defined as being the same in each language. For the same reason, the terms are given in the three languages, English, French and German.

EN**FR****DE**

AT audit test

essai d'audit

Überwachungsprüfung

BRT	batch release test	essai de libération de campagne de fabrication	Freigabeproofung einer Charge
IT	indirect test	essai indirect	indirekte Prüfung
PVT	process verification test	essai de vérification du procédé de fabrication	Prozessüberprüfung
TT	type test	essai de type	Typprüfung
WT	witness testing	essai témoin	Prüfung unter Aufsicht

5 General

Materials, products, joints and assemblies shall conform to the requirements given in EN 14758-1.

Products and assemblies shall be produced by the manufacturer under a quality management system which includes a quality plan.

It is recommended that the quality management system conforms to or is no less stringent than the relevant requirements to EN ISO 9001 [4].

6 Testing and inspection

6.1 Material specification

For the purposes of this Technical Specification, the material specification consists of a polypropylene (PP) base material with specific trade name and additives with known dosage level.

The re-use of materials is permitted as specified in EN 14758-1:2012, 4.2.

When a masterbatch is used, it shall be considered as a change of compound, if the type of carrier of the pigment is changed.

6.2 Grouping

6.2.1 General

For the purposes of this Technical Specification, the groups specified in 6.2.2 and 6.2.3 applies.

6.2.2 Size groups

Four size groups are defined for pipes and fittings, as given in Table 1.

For testing purposes, one individual nominal diameter, d_n , shall be selected from each group.

Table 1 — Size groups

Size group	Nominal outside diameter, d_n mm
1	$d_n \leq 200$
2	$200 < d_n \leq 500$
3	$500 < d_n \leq 1\,200$