

SLOVENSKI STANDARD SIST-TS CEN/TS 1329-2:2012

01-september-2012

Nadomešča:

SIST ENV 1329-2:2002

Cevni sistemi iz polimernih materialov za (nizko- in visokotemperaturne) odvodne sisteme v zgradbah - Nemehčan polivinilklorid (PVC-U) - 2. del: Navodilo za ugotavljanje skladnosti

Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure - Unplasticized poly(vinyl chloride) (PVC-U) - Part 2: Guidance for the assessment of conformity STANDARD PREVIEW

Kunststoff-Rohrleitungssysteme zum Ableiten von Abwasser (niedriger und hoher Temperatur) innerhalb der Gebäudestruktur - Weichmacherfreies Polyvinylchlorid (PVC-U) - Teil 2: Empfehlungen für die Beurteilung der Konformität https://standards.iteh.av/catalog/standards/sis/881221ie-dead-4ec1-a7e3-713b68aa7553/sist-ts-cen-ts-1329-2-2012

Systèmes de canalisations en plastique pour l'évacuation des eaux-vannes et des eaux usées (à basse et à haute température) à l'intérieur de la structure des bâtiments - Poly (chlorure de vinyle) non plastifié (PVC-U) - Partie 2: Guide pour l'évaluation de la conformité

Ta slovenski standard je istoveten z: CEN/TS 1329-2:2012

ICS:

23.040.01 Deli cevovodov in cevovodi Pipeline components and

na splošno pipelines in general

91.140.80 Drenažni sistemi Drainage systems

SIST-TS CEN/TS 1329-2:2012 en,fr,de

SIST-TS CEN/TS 1329-2:2012

iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>SIST-TS CEN/TS 1329-2:2012</u> https://standards.iteh.ai/catalog/standards/sist/881221fe-dead-4ec1-a7e3-713b68aa7553/sist-ts-cen-ts-1329-2-2012

TECHNICAL SPECIFICATION SPÉCIFICATION TECHNIQUE TECHNISCHE SPEZIFIKATION

CEN/TS 1329-2

May 2012

ICS 23.040.01; 91.140.80

Supersedes ENV 1329-2:2001

English Version

Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure - Unplasticized poly(vinyl chloride) (PVC-U) - Part 2: Guidance for the assessment of conformity

Systèmes de canalisations en plastique pour l'évacuation des eaux-vannes et des eaux usées (à basse et à haute température) à l'intérieur de la structure des bâtiments - Poly(chlorure de vinyle) non plastifié (PVC-U) - Partie 2: Guide pour l'évaluation de la conformité

Kunststoff-Rohrleitungssysteme zum Ableiten von Abwasser (niedriger und hoher Temperatur) innerhalb der Gebäudestruktur - Weichmacherfreies Polyvinylchlorid (PVC-U) - Teil 2: Empfehlungen für die Beurteilung der Konformität

This Technical Specification (CEN/TS) was approved by CEN on 9 January 2012 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.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

Conf	tents	Page
Forew	ord	3
Introd	uction	4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Abbreviated terms	8
5	General	9
6 6.1 6.2 6.2.1 6.2.2 6.2.3 6.3 6.4 6.5 6.6 6.7 6.8	Testing and inspection Material specification Grouping General Size groups Fitting groups Type testing Batch release tests Process verification tests Audit tests Indirect tests Indirect tests Test records SIST-TS CEN/TS 1329-2:2012 K A (informative) Basic test matrix SIST-TS CEN/TS 1329-2:2012	9101111151617
Annex	21	
Bibliography 713h68aa7553/sist-ts-cen-ts-1329-2-2012		

Foreword

This document (CEN/TS 1329-2:2012) 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 [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes ENV 1329-2:2001.

Compared with ENV 1329-2:2001, the following changes have been made:

- a) Use of the template drafted by CEN/TC 155/WG 21 for assessment of conformity documents (change of "Terms and definitions" and addition of 1 column "Sampling procedures" in Tables);
- b) Introduction of "Limits of addition of PVC reprocessed and recycled material" in a separate table (Table 2);
- c) Deletion of all requirements for TPE seals as they are no longer required;
- d) Addition of an informative Annex A: Basic test matrix. PRFVIEW

EN 1329, Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure — Unplasticized poly(vinyl chloride) (PVC-U), consists of the following Parts:

- Part 1: Specifications for pipes, fittings and the system https://standards.iteh.av/catalog/standards/sist/881221fe-dead-4ec1-a7e3-
- Part 2: Guidance for the assessment of conformity (the present Technical Specification)

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this Technical Specification: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, 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.

Introduction

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

A typical scheme for the assessment of conformity of materials (compounds/formulations), pipes, fittings, valves or assemblies by manufacturers is given in Figure 1.

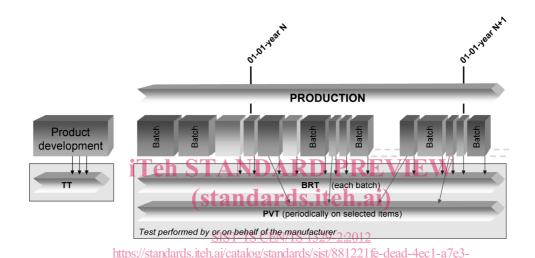


Figure 1 — Typical scheme for the assessment of conformity by a manufacturer

A typical scheme for the assessment of conformity of materials (compounds/formulations), pipes, fittings, valves or assemblies by manufacturers, including a third-party certification, is given in Figure 2.

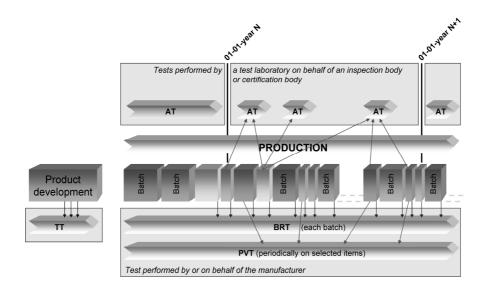


Figure 2 — Typical scheme for the assessment of conformity by a manufacturer, including a thirdparty certification

1 Scope

This Technical Specification gives guidance for the assessment of conformity of materials (compounds/formulations), products and assemblies in accordance with EN 1329-1 intended to be included in the manufacturer's quality plan as part of the quality management system and for the establishment of third-party certification procedures.

NOTE 1 It is recommended that the quality management system conforms to or is no less stringent than the relevant requirements to EN ISO 9001 [1].

NOTE 2 If third-party certification is involved, it is recommended that the certification body is accredited to EN 45011 [2], EN 45012 [3] or EN ISO/IEC 17021 [4], as applicable.

NOTE 3 In order to help the reader, a basic test matrix is given in Annex A.

In conjunction with EN 1329-1, this document is applicable to piping systems made of unplasticized poly(vinyl chloride) (PVC-U) intended to be used for the following purposes:

- for soil and waste discharge systems (low and high temperature) inside buildings (application area code "B");
- for soil and waste discharge systems (low and high temperature) for both inside buildings and buried in ground within the building structure (application area code "BD").

NOTE 4 This is reflected in the marking of products by "B" or "BD"? RV

(standards.iteh.ai)

2 Normative references

SIST-TS CEN/TS 1329-2:2012

The following documents in whole or in granting partial are informatively areferenced 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 1329-1:1999, Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure — Unplasticized poly(vinyl chloride) (PVC-U) — Part 1: Specifications for pipes, fittings and the system

3 Terms and definitions

For the purposes of this Technical Specification, the terms and definitions given in EN 1329-1:1999 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 accredited to EN 45011 [2].

3.2

inspection body

impartial organisation or company approved by the certification body as possessing the necessary competence to verify and/or to carry out initial type testing, audit testing and inspection of the manufacturer's factory production control in accordance with the relevant standard

Note 1 to entry: An inspection body is preferably accredited to EN ISO/IEC 17020 [5].

3.3

testing laboratory

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

Note 1 to entry: In the context of this part of EN 1329, 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 accredited to EN ISO/IEC 17025 [6].

3.4

quality management system

a 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 [1].

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 TANDARD PREVIEW

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 SIST-TS CEN/TS 1329-2:2012

batch release test https://standards.iteh.ai/catalog/standards/sist/881221fe-dead-4ec1-a7e3-

BRT 713b68aa7553/sist-ts-cen-ts-1329-2-2012

test performed by or on behalf of the manufacturer on a batch of materials or products, which needs 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 or assemblies 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; rather they are carried out as a measure of process control.

3.9

audit test

ΑT

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

ΙT

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

[SOURCE: 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. anti-oxidants, 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 iTeh STANDARD PREVIEW

product

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

3.16 <u>SIST-TS CEN/TS 1329-2:2012</u>

product batch https://standards.iteh.ai/catalog/standards/sist/881221fe-dead-4ec1-a7e3-

clearly identified collection of products,5 manufactured 3 consecutively or continuously under the same conditions, using the same materials and 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 set apart 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

3.20

component

product manufactured out of a specific 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.

3.25

sampling plan

specification of the type of sampling to be used in combination 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

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

3.26

iTeh STANDARD PREVIEW

product type

product type

(standards.iteh.ai)

generic description of a product

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

https://standards.iteh.ai/catalog/standards/sist/881221fe-dead-4ec1-a7e3-713b68aa7553/sist-ts-cen-ts-1329-2-2012

3.27

cavity

EXAMPLE

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

EXAMPLE That part of the 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
audit test	essai d'audit	Überwachungsprüfung
batch release test	essai de libération de campagne de fabrication	Freigabeprüfung einer Charge
indirect test	essai indirect	indirekte Prüfung
process verification test	essai de vérification du procédé de fabrication	Prozessüberprüfung
type test	essai de type	Typprüfung
witness testing	essai témoin	Prüfung unter Aufsicht
	audit test batch release test indirect test process verification test type test	audit test essai d'audit batch release test essai de libération de campagne de fabrication indirect test essai indirect process verification test essai de vérification du procédé de fabrication type test essai de type

5 General

- **5.1** Materials (compounds/formulations), products, joints and assemblies shall conform to the requirements given in EN 1329-1.
- **5.2** Products shall be produced by the manufacturer under a quality management system which includes a quality plan (including specifications on joints and assemblies).

It is recommended that the quality management system conforms to, or is no less stringent than, the relevant requirements in EN ISO 9001 [1].

6 Testing and inspection

6.1 Material specification

For the purposes of this Technical Specification, the material specification consists of a formulation which defines PVC resin and additives and their dosage levels.

The dosage level of ingredients of a material shall not exceed the tolerance bands given in Table 1. If any level exceeds the dosage band or if a type (see Table 1) is changed, this variation in formulation constitutes a change in material.

The use of reprocessed and/or recycled material (which is referred to as "reprocessable and recyclable material" in EN 1329-1 until further revision) shall be considered as a change in formulation when the change in addition exceeds the tolerance bands given in Table 2.

The values of the parts *X* added to 100 parts by mass of PVC shall be specified by the manufacturer in the quality plan.

SIST-TS CEN/TS 1329-2:2012

https://standards.iteh.ai/catalog/standards/sist/881221fe-dead-4ec1-a7e3-713b68aa7553/sist-ts-cen-ts-1329-2-2012