

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 30 November 2020 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.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
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## European foreword

This document (CEN/TS 1329-2:2021) 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 1329-2:2018.

Compared with CEN/TS 1329-2:2018, the following changes have been made:

- merging of Table 1 and Table 2 to have the new Table 1 “Formulation tolerances”;
- clarification that a lower content of non-virgin material in the formulation which has already been Type tested and which is fulfilling the agreed specification is not considered as a material change;
- increase of minimum testing frequencies if a non-virgin material is used.

EN 1329 consists of the following parts, under the general title “*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;*
- *Part 2: Guidance for the assessment of conformity.*

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## Introduction

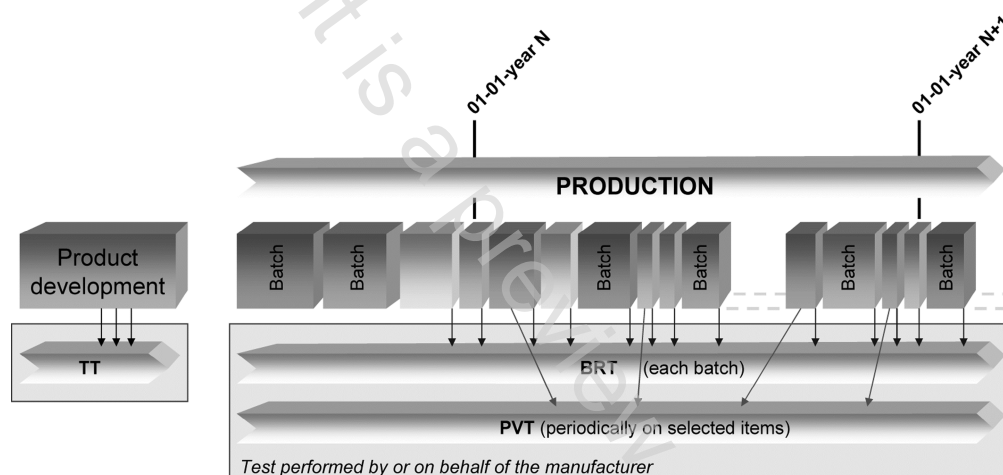
This revision of the EN 1329 series is proposed in order to improve the 'level of sustainability' and the 'environmental impact' of PVC piping systems, whilst improving the recommendations and safe use of recycled material. Recycled material is categorized as non-virgin material in this document.

Regarding this specific target, more focus was given to the control of applied material formulation and to the final characteristics and performance of products.

This document is based on the template prepared in CEN/TC 155/WG21 version V.5.

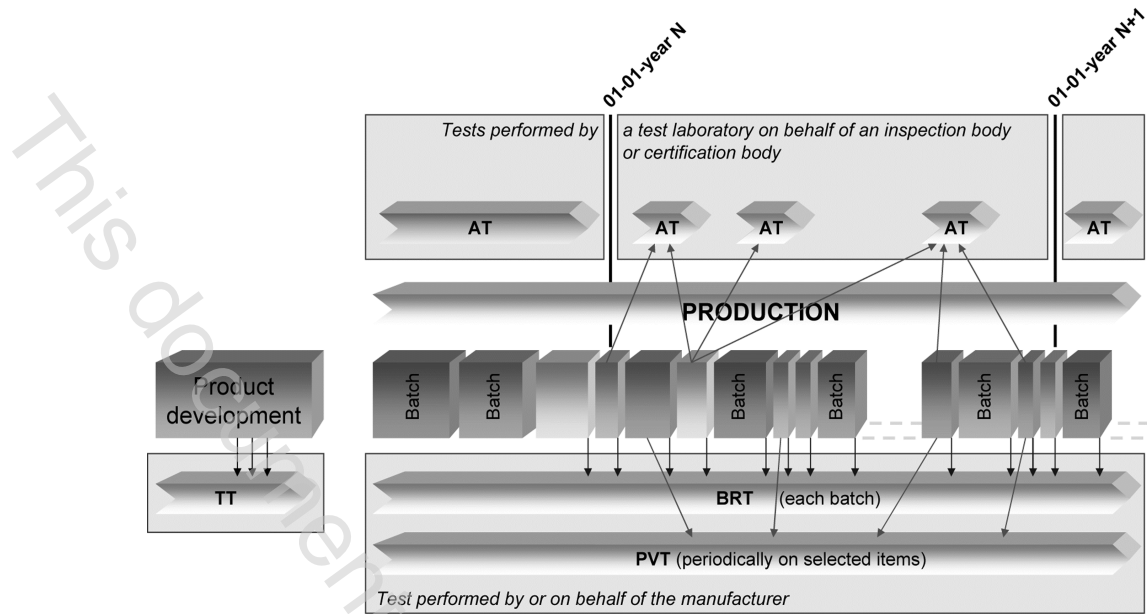
Figures 1 and 2 are intended to provide general information on the concept of testing and organization of those tests used for the purpose of the assessment of conformity. For each type of test, i.e. type testing (TT), batch release test (BRT), process verification test (PVT) and audit test (AT), this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

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



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

## 1 Scope

This document gives requirements and guidance for the assessment of conformity of 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 The quality management system is expected to conform to or is no less stringent than the relevant requirements to EN ISO 9001 [1].

NOTE 2 If third party certification is involved, the certification body is expected to be compliant with either EN ISO/IEC 17065 [2] or EN ISO/IEC 17021-series [3], 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 for soil and waste discharge systems (low and high temperature):

- inside buildings (application area code "B");
- both inside buildings and buried in ground within the building structure (application area code "BD").

## 2 Normative references

The following documents are referred to in the text in such a way that some of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1329-1:2020, *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 document, the terms and definitions given in EN 1329-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

### 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 17065 [2].