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# Adhesives for thermoplastic piping systems for fluids under pressure — Specifications

bsi.

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The UK participation in its preparation was entrusted to Technical Committee PRI/52, Adhesives.

A list of organizations represented on this committee can be obtained on request to its secretary.



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English Version

# Adhesives for thermoplastic piping systems for fluids under pressure - Specifications

Adhésifs pour systèmes de canalisations thermoplastiques pour liquides sous pression - Spécifications

Klebstoffe für Druckrohrleitungssysteme aus thermoplastischen Kunststoffen für Fluide - Festlegungen

This European Standard was approved by CEN on 15 March 2016.

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

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**



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# Contents

## European foreword

This document (EN 14814:2016) has been prepared by Technical Committee CEN/TC 193 “Adhesives”, the secretariat of which is held by AENOR.

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of an identical text or by endorsement, at the latest by November 2016, and conflicting national standards shall be withdrawn at the latest by February 2018.

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 EN 14814:2007.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of basic work requirements of Regulation (EU) 305/2011.

For relationship with Regulation (EU) 305/2011, see informative Annex ZA, which is an integral part of this document.

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# Introduction

This European Standard contains the requirements for adhesives for thermoplastic piping systems under pressure independent of piping system application. The existing system and application standards that specify parameters for adhesive joints in particular application areas and the test methods specified therein remain unchanged. The requirements referred to in these system standards concern temperature, pressure and standard life span of the piping system, and are applicable to all the components of the piping system for all the relevant dimensions that require specified application.

# 1 Scope

This European Standard specifies the requirements and test methods for adhesives used for joining the components of unplasticized poly(vinyl chloride) (PVC-U), chlorinated poly(vinyl chloride) (PVC-C), acrylonitrile-butadiene-styrene (ABS) and styrene copolymer blends (PVC+SAN) thermoplastic piping systems for fluids under pressure, independent of the application area.

# 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 923:2015, *Adhesives — Terms and definitions*

EN 1452 (all parts), *Plastics piping systems for water supply — Unplasticized poly(vinyl chloride) (PVC-U)*

EN ISO 9311-2, *Adhesives for thermoplastic piping systems - Part 2: Determination of shear strength (ISO 9311-2)*

EN ISO 9311-3, *Adhesives for thermoplastic piping systems - Part 3: Test method for the determination of resistance to internal pressure (ISO 9311-3)*

EN ISO 15493, *Plastics piping systems for industrial applications - Acrylonitrile-butadiene-styrene (ABS), unplasticized poly(vinyl chloride) (PVC-U) and chlorinated poly(vinyl chloride) (PVC-C) - Specifications for components and the system - Metric series (ISO 15493)*

EN ISO 15877 (all parts), *Plastics piping systems for hot and cold water installations — Chlorinated poly(vinyl chloride) (PVC-C) (ISO 15877, all parts)*

# 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 923:2015 and the following apply.

**3.1**
**diametral clearance**
difference between the mean inside diameter ($d_{sm}$) of the socket and the mean outside diameter ($d_{em}$) of the pipe

**3.2**
**Batch Release Test**
**BRT**
test performed by the manufacturer on a batch of components

Note 1 to entry: The test needs to be satisfactorily completed before the batch can be released.

**3.3**
**Type Test**
**TT**
tests performed to prove that the material, component, joint or assembly is capable of conforming with the relevant requirements given in the System Standard