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English Version

Thermoplastics piping systems - Guidance for definitions of wall constructions for pipes (ISO/TR 27165:2012)

Systèmes de canalisations thermoplastiques - Lignes directrices pour les définitions relatives à la construction des parois de tubes (ISO/TR 27165:2012)

Rohrleitungssysteme aus thermoplastischen Kunststoffen - Anleitung für die Benennung der Wandkonstruktionen thermoplastischer Rohre (ISO/TR 27165:2012)

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Foreword

This document (CEN ISO/TR 27165:2012) 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".

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Introduction

For thermoplastics piping systems used in pressure and non-pressure applications, there are different wall constructions on the market.

Existing definitions in product standards can vary from those as given in this document.

Regarding new developments in this sector, CEN/TC 155 and ISO/TC 138/SC 2 felt it necessary to establish common definitions for wall constructions of pipes to be referenced in a uniform way in product standards.

Thermoplastics piping systems — Guidance for definitions of wall constructions for pipes

1 Scope

This Technical Report provides definitions for wall constructions of thermoplastics pipes intended to be used in pressure and non-pressure pipe applications. It takes into account as far as possible already existing definitions in published product standards and gives guidance for a common text when drafting new deliverables or revising existing ones.

2 Normative references

The following referenced documents are indispensable for the application 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.

ISO 472:1999, *Plastics — Vocabulary*

ISO 1043-1:2011, *Plastics — Symbols and abbreviated terms — Part 1: Basic polymers and their special characteristics*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 472:1999 and ISO 1043-1:2011 and the following apply.

NOTE For specific definitions related to wall constructions of thermoplastics pipes, guidance is given in 3.3, 3.4 and 3.5 as applicable. The definitions refer to the body of the pipe not to the spigots and sockets.

3.1 Materials

3.1.1

material

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

3.1.2

compound

formulation

clearly defined homogenous mixture of base polymer with additives, e.g. anti-oxidants, pigments, stabilisers and others, at a dosage level necessary for the processing and the intended use of the final product

NOTE In water and food contact regulations, the term “composition” is often used instead of compound or formulation.

3.2 Coated pipes

3.2.1

coated pipes

pipe with a peelable, contiguous thermoplastics additional layer on the outside of the pipe

NOTE A peelable layer is intended to protect the pipe and shall be removed prior to jointing.