
Plastics piping systems for industrial applications — Polybutene (PB), polyethylene (PE), polyethylene of raised temperature resistance (PE-RT), crosslinked polyethylene (PE-X), polypropylene (PP) — Metric series for specifications for components and the system

AMENDMENT 1

<https://standards.iteh.ai/catalog/standards/sist/69ca7256-9c97-4af3-8355-850e8446c507/iso-15494-2015/amd-1-2020>

Systèmes de canalisations en matières plastiques pour les applications industrielles — Polybutène (PB), polyéthylène (PE), polyéthylène de meilleure résistance à la température (PE-RT), polyéthylène réticulé (PE-X), polypropylène (PP) — Séries métriques pour les spécifications pour les composants et le système

AMENDEMENT 1



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This document was prepared by Technical Committee ISO/TC 138, *Plastics pipes, fittings and valves for the transport of fluids*, Subcommittee SC 3, *Plastics pipes and fittings for industrial applications*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 155, *Plastic piping systems and ducting systems*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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D.1.1

Replace [Formula \(D.1\)](#) with the following:

$$\log t = -105,8618 - \frac{18506,15 \log \sigma}{T} + \frac{57895,49}{T} - 24,7997 \log \sigma \quad (\text{D.1})$$

Modify the NOTE as follows:

NOTE The calculation for PE-X is based on ISO 10146 but in this document the logarithm to base 10 is indicated with log, where $\log = \log_{10} = \lg$.

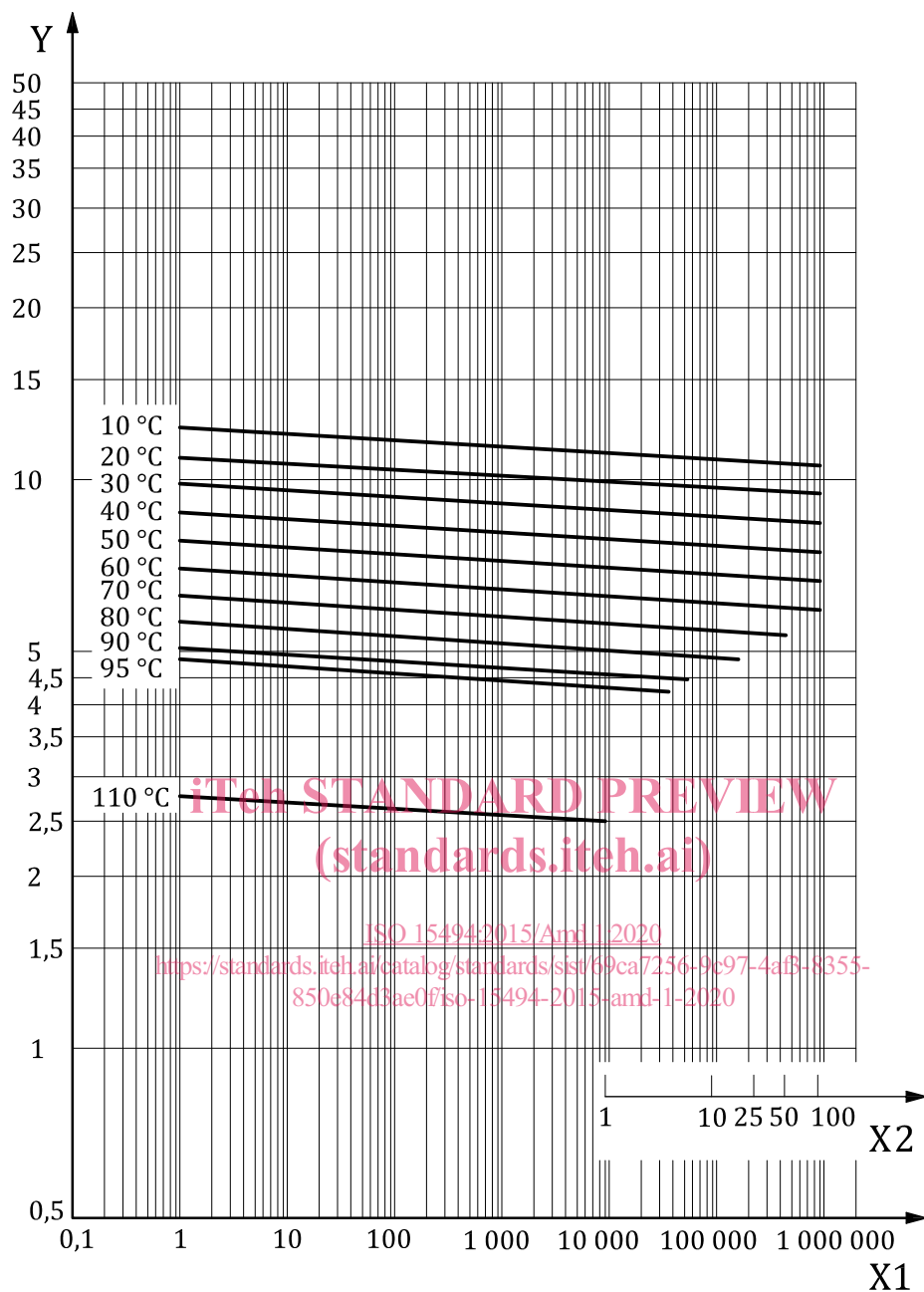
At the end of the subclause, add the following text:

The 110 °C values have been determined separately using water inside and air outside the test specimen. The reference line is described by [Formula \(D.2\)](#):

$$\log t = 37,4958 - 84,0336 \log \sigma \quad (\text{D.2})$$

D.1.1.1

Replace [Figure D.1](#) with the following figure:



Key

X_1 time to failure, in hours (h)

X_2 time to failure, in years

Y hoop stress, in megapascal (MPa)

Figure D.1 — Minimum required hydrostatic strength curves for PE-X

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