
**Polybutene-1 (PB-1) pipes — Effect of time
and temperature on the expected strength**

*Tubes en polybutène-1 (PB-1) — Influence du temps et de la
température sur la résistance espérée*

Preview

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Foreword

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ISO 12230 was prepared by Technical Committee ISO/TC 138, *Plastics pipes, fittings and valves for the transport of fluids*, Subcommittee SC 5, *General properties of pipes, fittings and valves of plastic materials and their accessories — Test methods and basic specifications*.

This second edition cancels and replaces the first edition (ISO 12230:1996), which has been technically revised.

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Introduction

The development of new polybutene-1 compounds based on random copolymers called PB-R means there is a need to rename the existing PB-1 homopolymer compounds PB-H. At the same time a new set of reference lines and tabulated expected hoop strength values for various times and temperatures needs to be included.

The main changes since the previous edition of this International Standard are

- new definition of PB-1 compounds PB-H (homopolymer) and PB-R (copolymers),
- new set of reference lines (coefficients and diagram),
- new table containing calculated expected hoop strength values,
- recalculation of hoop strength data of PB-H and specifying values rounded down to one decimal place,
- clearer specification of showing conformance to reference lines, and
- conformance to reference lines can be shown by not failed data points running at sufficiently high hoop stress, too.

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