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(ISO 10146 : 1997)

**Crosslinked polyethylene (PE-X)
pipes—Effect of time and
temperature on the expected
strength**

ICS 23.040.20

Descriptors : cross-linking (chemical), cross-linked materials, polyethylene, pipes,
pipe connections

Reference number : JIS K 6795 : 1998 (E)

K 6795 : 1998 (ISO 10146 : 1997)

Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of International Trade and Industry through deliberations at Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law:

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In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

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Crosslinked polyethylene (PE – X) pipes — Effect of time and temperature on the expected strength

Introduction This Japanese Industrial Standard has been prepared based on the first edition issued in 1997 of ISO 10146 Crosslinked polyethylene (PE-X) pipes—Effect of time and temperature on the expected strength without changing the technical contents.

1 Scope

This Japanese Industrial Standard lays down the minimum values for expected strength as a function of time and temperature in the form of reference lines, for use in calculations on crosslinked polyethylene (PE-X) pipes.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this Standard. At the time of publication, the edition indicated was valid. If the indication of the year of coming into effect is given to these referred standards, only the edition of indicated year constitutes the provision of this Standard but the revision and amendment made thereafter are not applied.

ISO 1167:1996, *Thermoplastics pipes for the conveyance of fluids — Resistance to internal pressure — Test method*.

3 Definition

For the purposes of this Standard, the following definition applies.

3.1 reference lines: A generic description of the minimum long-term hydrostatic strength to be expected from a particular polymer.

NOTES

- 1 Reference lines are not to be considered as characteristic of a specific grade or of material from a specific supplier.
- 2 The lines are described by a mathematical equation which permits interpolation and extrapolation in an unambiguous way at various temperatures.
- 3 The reference lines for crosslinked polyethylene (PE-X) have been agreed upon by a group of experts after considering experimental data, and have been accepted by the relevant technical committees in ISO and CEN.