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## **Polyolefin pipes for the conveyance of fluids — Determination of resistance to crack propagation — Test method for slow crack growth on notched pipes**

*Tubes en polyoléfines pour le transport des fluides — Détermination de la résistance à la propagation de la fissure — Méthode d'essai de la propagation lente de la fissure d'un tube entaillé (essai d'entaille)*



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## Contents

	Page
<b>Foreword</b> .....	<b>iv</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
3.1 Terms related to geometrical dimensions.....	1
3.2 Terms related to machining of notches.....	2
<b>4 Symbols and abbreviation</b> .....	<b>3</b>
4.1 Symbols.....	3
4.2 Abbreviated terms.....	3
<b>5 Principle</b> .....	<b>3</b>
<b>6 Apparatus</b> .....	<b>4</b>
<b>7 Test piece preparation</b> .....	<b>4</b>
7.1 General.....	4
7.2 Test pieces.....	5
7.3 Notch location and measurement of dimensions.....	5
7.4 Machining the notches.....	5
7.5 Number of test pieces.....	7
<b>8 Conditioning</b> .....	<b>7</b>
<b>9 Procedure</b> .....	<b>7</b>
9.1 Hydrostatic-pressure testing.....	7
9.2 Ligament thickness measurement after testing.....	7
<b>10 Test report</b> .....	<b>8</b>
<b>Annex A (normative) Ligament thicknesses</b> .....	<b>10</b>
<b>Annex B (informative) Test-pressure levels for polyethylene</b> .....	<b>13</b>
<b>Annex C (informative) Recommended requirements for polyethylene</b> .....	<b>14</b>
<b>Annex D (normative) Test procedure for the accelerated notched pipe test (ANPT) for PE 100-RC pipes</b> .....	<b>15</b>
<b>Annex E (normative) Method of measuring notch radius</b> .....	<b>18</b>
<b>Bibliography</b> .....	<b>19</b>

## Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document 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*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 155, *Plastics piping systems and ducting systems*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 13479:2009), which has been technically revised.

The main changes are as follows:

- warnings have been added to follow the method of test piece preparation and the test procedure because of the influence on the result;
- a maximum notch radius has been specified;
- in case of premature failure, alternative test pressures and times for PE 80 and PE 100 have been added to allow retesting at a lower pressure for a longer time;
- an accelerated method by testing with an external detergent has been added.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).