STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 1462.24–2003

Methods of test for plastics pipes and fittings

Method 24: Determination of resistance to crack propagation–Test methods for slow crack growth in notched pipes (notch test)

RECONFIRMATION NOTICE

Technical Committee PL-006 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

Certain documents referenced in the publication may have been amended since the original date of publication. Users are advised to ensure that they are using the latest versions of such documents as appropriate, unless advised otherwise in this Reconfirmation Notice.

Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 14 May 2018.

The following are represented on Technical Committee PL-006:

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Australian Industry Group
Energy Networks Australia
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Plastics Industry Pipe Association of Australia
Plastics New Zealand
Plumbing Products Industry Group
Water New Zealand
Water Services Association of Australia

NOTES

AS 1462.24:2003
ISO 13479:1997
Reconfirmed 2018

Australian Standard™

Methods of test for plastics pipes and fittings

Method 24: Determination of resistance to crack propagation—Test methods for slow crack growth in notched pipes (notch test)

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee PL-045, Plastics Pipe Systems Test and Calculation Methods.

This Standard is equivalent to and has been reproduced from ISO 13479:1997, *Polyolefin pipes for the conveyance of fluid—Determination of resistance to crack propagation—Test method for slow crack growth on notched pipes (notch test).*

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(e) Reference to International Standards should be supplemented by references to equivalent Australian Standards, as follows:

Reference to International Standard		*Australian/New Zealand Standard*	
ISO		AS/NZS	
161	Thermoplastics pipes for the conveyance of fluids—Nominal outside diameters and nominal pressures		
161-1	Part 1: Metric series		
1167	Thermoplastics pipes for the conveyance of fluids—Resistance to internal pressure—Test method	1462	Methods of tests for plastics pipes and fittings
		1462.6	Method 6: Method for hydrostatic pressure testing of pipes
6108	Double equal angle cutters with plain bore and key drive		
11922	Thermoplastics pipes for the conveyance of fluids—Dimensions and tolerances		
11922-1	Part 1: Metric series	4130	Polyethylene (PE) pipes for pressure applications

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NOTES

METHOD

1 Scope

This International Standard specifies a method of test for determining the resistance to slow crack growth of polyolefin pipes, expressed in terms of time to failure in a hydrostatic pressure test on a pipe with machined longitudinal notches in the outside surface. The test is applicable to pipes of wall thickness greater than 5 mm.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 161-1:1996, *Thermoplastics pipes for the conveyance of fluids — Nominal outside diameters and nominal pressures — Part 1: Metric series.*

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

ISO 6108:1978, *Double equal angle cutters with plain bore and key drive.*

ISO 11922-1:1997, *Thermoplastics pipes for the conveyance of fluids — Dimensions and tolerances — Part 1: Metric series.*

3 Definitions

For the purposes of this International Standard, the definitions given in ISO 161-1 and ISO 11922-1 apply.

4 Principle

Lengths of pipe with four machined longitudinal external notches are subject to a constant-pressure hydrostatic pressure test whilst immersed in a water tank at 80 °C. The time to failure is recorded.