AS 2943—2007
(Incorporating Amendment No. 1)

AS 2943—2007

Australian STANDARD

Plastics pipes and fittings for gas reticulation—Polyamide compounds

STANDARDS Australia

This Australian Standard® was prepared by Committee PL-021, PVC, ABS and Polyamide Pipe Systems. It was approved on behalf of the Council of Standards Australia on 12 October 2007.
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- Australian Chamber of Commerce and Industry
- Australian Nuclear Science and Technology Organisation
- Certification Interests (Australia)
- CSIRO Manufacturing and Infrastructure Technology
  Energy Networks Association
- Engineers Australia
- New Zealand Local Government
- Master Plumbers, Gasfitters and Drainlayers New Zealand
- New Zealand Water and Waste Association
- Plastics Industry Pipe Association of Australia
- Plastics New Zealand
- Water Services Association of Australia

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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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PREFACE

This Australian Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee PL-021, PVC, ABS and Polyamide Pipe Systems, to supersede AS 2943—1987. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

This Standard incorporates Amendment No. 1 (November 2018). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

This Standard complements AS 2944.1, *Plastics pipes and fittings for gas reticulation,* Part 1: *Polyamide pipes* and AS 2944.2, *Plastics pipes and fittings for gas reticulation*, Part 2: *Polyamide fittings*.

The objective of this Standard is to provide minimum requirements for polyamide Compounds used for the manufacture of polyamide pipes and fittings for pressure applications.

In the preparation of this Standard, consideration has been given to international best practice.

The term ‘normative’ has been used in this Standard to define the application of the appendix to which it applies. A ‘normative’ appendix is an integral part of a Standard.

Statements expressed in mandatory terms in notes to tables are deemed to be requirements of this Standard. Notes to text are for information and guidance only.

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STANDARDS AUSTRALIA

Australian Standard

Plastics pipes and fittings for gas reticulation—Polyamide compounds

1 SCOPE

This Standard specifies requirements for polyamide 11 (PA 11) and 12 (PA 12) compounds suitable for making polyamide pipe and fittings for gas reticulation.

NOTE: This Standard does not preclude the use of these materials for other fluid distribution applications.

2 APPLICATION

Determination of compliance with this Standard shall be in accordance with Appendix A.

3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

1199		Sampling procedures for inspection by attributes
1199.1	Part 1:	Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection
1349		Bourdon tube pressure and vacuum gauges
2700		Colour Standards for general purposes
2944		Plastics pipe and fittings for gas reticulation
2944.1	Part 1:	Polyamide pipes

A1 AS ISO/IEC

17025		General requirements for the competence of testing and calibration laboratories

AS/NZS

1462		Methods of test for plastics pipes and fittings
1462.1	Part 1:	Method for determining the dimensioning of pipes and fittings
1462.6	Part 6:	Method for hydrostatic pressure testing of pipes
1462.26	Part 26:	Determination of weathering resistance of plastics pipes for external storage
1462.28	Part 28:	Method for the assessment of the degree of pigment or carbon black dispersion in polyolefin pipes, fittings and compounds
1462.29	Part 29:	Plastics piping and ducting systems—Determination of the long-term hydrostatic strength of themoplastics materials in pipe form by extrapolation (ISO 9080:2003, MOD)

ISO

307		Plastics—Polyamides—Determination of viscosity number
1183		Plastics—Methods for determining the density of non-cellular plastics (series)
15512		Plastics—Determination of water content

HB

18		Conformity assessment
18.28		Guide 28: Guidance on a third-party certification system for products