

Australian/New Zealand Standard™

**Polybutylene (PB) plumbing pipe  
systems**

**Part 1: Polybutylene (PB) pipe extrusion  
compounds**



## **AS/NZS 2642.1:2007**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee PL-006, Polyolefin Pipe Systems. It was approved on behalf of the Council of Standards Australia on 26 October 2006 and on behalf of the Council of Standards New Zealand on 23 March 2007.

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The following are represented on Committee PL-006:

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CSIRO Manufacturing & Infrastructure Technology  
Certification Interests (Australia)  
Energy Networks Association  
Engineers Australia  
Master Plumbers, Gasfitters and Drainlayers New Zealand  
New Zealand Water & Waste Association  
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*This Standard was issued in draft form for comment as DR 05540.*

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**Part 1: Polybutylene (PB) pipe extrusion  
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## PREFACE

This Standard was prepared by the Joint Australia/New Zealand Standards Committee PL/006 on Polyolefin Pipe Systems, to supersede AS 2642.1—1994.

*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.*

The Standard is Part 1 of a series of polybutylene pipe system Standards. Other Standards in the series are as follows:

### AS/NZS

- 2642 Polybutylene (PB) plumbing pipe systems
- 2642.2 Part 2: Polybutylene (PB) pipe for hot and cold water applications
- 2642.3 Part 3: Mechanical jointing fittings for use with polybutylene (PB) pipes for hot and cold water applications

The objective of this Standard is to provide manufacturers and purchasers with a standard specification that ensures the extrusion compound used for these products is suitable.

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.

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## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

**Australian/New Zealand Standard**  
**Polybutylene (PB) plumbing pipe systems**

**Part 1: Polybutylene (PB) pipe extrusion compounds**

**1 SCOPE**

This Standard specifies requirements for polybutylene extrusion compounds suitable for making polybutylene pipe for hot and cold water applications.

NOTE: Polybutylene compound complying with this Standard is not intended to be manufactured into pipes for use in gas reticulation.

**2 APPLICATION**

Means for demonstrating 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 attributes
1199.1	Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection

AS/NZS

1462	Methods of test for plastic pipes and fittings
1462.6	Method 6: Method for hydrostatic pressure testing of pipes
1462.14	Method 14: Method for determination of the light transmission of pipe
1462.27	Method 27: Determination of toluene extract of carbon black

3500 Plumbing and drainage

3500.0 Part 0: Glossary of terms

4020 Testing for products in contact with drinking water

4131 Polyethylene (PE) compounds for pressure pipes and fittings

A1

AS ISO/IEC 17025	General requirements for the competence of testing and calibration laboratories
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ISO/IEC 17025	Conformity assessment—Guidelines on a third-party certification system for products
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ISO

1133	Plastics—Determination of the melt mass-flow rate (MFR) and the melt volume-flow rate (MVR) of thermoplastics
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1183 Plastics—Methods for determining the density of non-cellular plastics

1183-1	Part 1: Immersion method, liquid pyknometer method and titration method
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1183-2	Part 2: Density gradient column method
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