AS 5082.2—2007
(Incorporating Amendment No. 1)

AS 5082.2—2007

Australian STANDARD

Polybutylene (PB) plumbing pipe systems—Metric series

Part 2: Mechanical and fusion jointing systems

STANDARDS Australia

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The following are represented on Committee PL-006:

- AUSTAP
- CSIRO Manufacturing & Infrastructure Technology
- Certification Interests (Australia)
- Energy Networks Association
- Engineers Australia
- Master Plumbers, Gasfitters and Drainlayers New Zealand
- New Zealand Water & Waste Association
- Plastics Industry Pipe Association of Australia
- Plastics New Zealand
- Water Services Association of Australia

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PREFACE

This Standard was prepared by the Joint Australia/New Zealand Standards Committee PL-006 Polyolefin Pipe Systems at the request of pipe and fittings importers. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this series of Standards as Australian Standards rather than Australian/New Zealand Standards.

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 AS 5082 series consists of the following:

AS	
5082	Polybutylene (PB) plumbing pipe systems—Metric series
5082.1	Part 1: Metric polybutylene (PB) pipes for hot and cold water applications
5082.1	Part 2: Mechanical and fusion jointing systems

NOTE: For polybutylene extrusion compounds refer to Austalian/New Zealand Standard AS/NZS 2642.1, *Polybutylene (PB) plumbing pipe systems—Polybutylene (PB) extrusion compounds*.

This series of Standards differs from the relevant parts of the AS/NZS 2642 series for PB pipe systems as follows:

(a) The outside diameters of the pipes follow the metric dimensions, in accordance with ISO 161-1, *Thermoplastics pipes for the conveyance of fluids—Nominal outside diameters and nominal pressures,* Part 1: *Metric series*, as distinct from the diameters in the AS/NZS 2642 series which follow copper pipe compatible diameters.

(b) The size range of pipes within the AS 5082 series is greater, and a number of test requirements have been based on the ISO 15876 series, *Plastics piping systems for hot and cold water installation—Polybutylene (PB)*.

(c) The jointing system allows for fusion jointing.

It is not intended that this series of Standards will replace the AS/NZS 2642 series, which will be limited to plumbing sizes and pressure classes. To differentiate between both metric and imperial based systems, in particular given the closeness of the outside diameter tolerances for the 18 mm (nominal diameter) AS/NZS 2642 pipe and the 16 mm metric outside diameter pipe, both Standards will run concurrently to allow both systems to be marked or labelled differently.

Care should be taken to avoid mismatching of AS/NZS 2642 pipes or fittings with products complying with this series of Standards.

Statements expressed in normative terms in notes to tables are deemed to be requirements of this Standard.

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.

CONTENTS

STANDARDS AUSTRALIA

Australian Standard
Polybutylene (PB) plumbing pipe systems—Metric series

Part 2: Mechanical and fusion jointing systems

1 SCOPE

This Standard specifies requirements for mechanical and fusion jointing fittings suitable for use as fixed joints with polybutylene pipes manufactured in accordance with AS 5082.1 .

This standard is applicable to fittings of the following types:

(a) Socket weld fittings.

(b) Electrofusion fittings.

(c) Mechanical fittings.

(d) Fittings with incorporated inserts.

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

1349 Bourdon tube pressure and vacuum gauges

1722 Pipe threads of Whitworth form
1722.1 Part 1: Sealing pipe threads
1722.2 Part 2: Fastening pipe threads

2345 Dezincification resistance of copper alloys

3688 Water supply—Copper and copper alloy compression and capillary fittings and threaded end connectors

5082 Polybutylene (PB) plumbing pipe systems—Metric series
5082.1 Part 1: Metric polybutylene (PB) pipes for hot and cold water applications

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 Method 1: Method for determining the dimensions of pipes and fittings
1462.14 Method 14: Method for determination of the light transmission of pipe

