

Australian/New Zealand Standard™

**Acrylonitrile butadiene styrene (ABS)  
compounds, pipes and fittings for  
pressure applications**



## **AS/NZS 3518:2013**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee PL-021, PVC, ABS and Polyamide Pipe Systems. It was approved on behalf of the Council of Standards Australia on 4 February 2013 and on behalf of the Council of Standards New Zealand on 25 January 2013.  
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The following are represented on Committee PL-021:

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Local Government New Zealand  
Master Plumbers, Gasfitters and Drainlayers New Zealand  
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*This Standard was issued in draft form for comment as DR AS/NZS 3518.*

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Australian/New Zealand Standard<sup>™</sup>

**Acrylonitrile butadiene styrene (ABS)  
compounds, pipes and fittings for  
pressure applications**

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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee PL-021, PVC, ABS and Polyamide Pipe Systems, to supersede AS/NZS 3518:2004, *Acrylonitrile butadiene styrene (ABS) pipes, compounds and fittings for pressure applications*.

*This Standard incorporates Amendment No. 1 (December 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 objective of this document is to provide a standard specification for manufacturers and purchasers of these products.

This revision updates the references to some of the test methods and changes the frequency at which type tests are to be performed on pipes and moulded fittings.

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

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

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## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

**Australian/New Zealand Standard****Acrylonitrile butadiene styrene (ABS) compounds, pipes and fittings for pressure applications**

## SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE**

This Standard specifies the performance requirements for acrylonitrile butadiene styrene (ABS) compounds (ABS 120, ABS 140, ABS 160 and ABS 180), pipes and fittings for the conveyance of liquids under pressure in applications above and below ground. The Standard contains dimensions for three ranges of pipe sizes, Series 1, Series 2 and Series 3.

Series 1 and 3 pipes are compatible with ISO 161 size series diameters, Series 2 are cast iron compatible sizes in accordance with AS/NZS 2280.

NOTE: Pipes and fittings manufactured to this Standard should be used and installed only in accordance with AS/NZS 3690, AS/NZS 2566.2 and AS 4041, as applicable.

Methods of demonstrating compliance with this Standard are given in Appendix A.

**1.2 REFERENCED DOCUMENTS**

The following documents are referred to in this Standard:

## AS

- |        |  |
|--------|--|
| 1199   | Sampling procedures and tables for inspection by attributes                                  |
| 1199.1 | Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection |
| 1722   | Pipe threads of Whitworth form   |
| 1722.1 | Part 1: Sealing pipe threads   |
| 1722.2 | Part 2: Fastening pipe threads   |
| 2129   | Flanges for pipes, valves and fittings   |
| 2888   | Methods of testing plastics waste fittings   |
| 2888.1 | Method 1: Method for determining the suitability of connection threads of BSP form           |
| 4041   | Pressure piping  |

## AS/NZS

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|---------|--|
| 1462    | Methods of test for plastics pipes and fittings  |
| 1462.1  | Method 1: Method for determining the dimensions of pipes and fittings  |
| 1462.3  | Method 3: Method for determining the impact characteristics of pipes   |
| 1462.4  | Method 4: Method of determining reversion of UPVC pipes  |
| 1462.6  | Method 6: Thermoplastics pipes, fittings and assemblies for the transport of fluids under pressure—Resistance to internal pressure   |
| 1462.8  | Method 8: Method of testing the leaktightness of assemblies  |
| 1462.11 | Method 11: Method for high temperature stress-relief testing of fittings   |
| 1462.16 | Method 16: Method for high temperature testing of pipe   |
| 1462.28 | Method 28: Method for the assessment of the degree of pigment or carbon black dispersion in polyolefin pipes, fittings and compounds |