

Australian/New Zealand Standard™

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



## **AS/NZS 3518:2004**

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 25 June 2004 and on behalf of the Council of Standards New Zealand on 16 July 2004.  
This Standard was published on 28 July 2004.

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The following are represented on Committee PL-021:

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Energy Networks Association  
Engineers Australia  
Local Government New Zealand  
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*This Standard was issued in draft form for comment as DR 01083.*

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

Originated as AS 3518.1—1988 and AS 3518.2—1988.  
Jointly revised and redesignated as AS/NZS 3518:2004.  
Reissued incorporating Amendment No. 1 (May 2006).

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Jointly published by Standards Australia, GPO Box 476, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 6174 7

## 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 3518.1—1988, *Acrylonitrile butadiene styrene (ABS) pipes and fittings for pressure applications—Pipes* and AS 3518.2—1988, *Acrylonitrile butadiene styrene (ABS) pipes and fittings for pressure applications—Solvent cement fittings*.

*This Standard incorporates Amendment No. 1 (May 2006). 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.

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.

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.

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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**

A1 | 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 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
1462	Methods of test for unplasticized PVC (UPVC) pipes and fittings
1462.9	Method 9: Method for hydrostatic pressure testing of UPVC pressure fittings
1646	Elastomeric seals for waterworks purposes
1646.1	Part 1: General requirements
1646.2	Part 2: Material requirements for pipe joint seals used in water and wastewater applications—Specifies by prescription formulation
1646.3	Part 3: Material requirements for pipe joints seal used in water and wastewater applications with the exception of natural rubber and polyisoprene compounds
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
3690	Installation of ABS pipe systems
3691	Solvent cement and priming fluids for use with ABS pipes and fittings
4041	Pressure piping
4087	Metallic flanges for waterworks purposes
4441 (Int)	Oriented PVC (PVC-O) pipes for pressure applications