

Australian Standard™

AS 3706.2

Geotextiles—Methods of test

Method 2: Determination of tensile properties— Wide-strip method

METHOD

1 SCOPE

This Standard sets out the method for determining the tensile properties of geotextiles in both atmospheric and wet conditions using a wide-strip specimen.*

2 APPLICATION

This method is applicable to all types of geotextiles, but has limitations for high strength materials (i.e. those having a tensile strength in excess of approximately 85 kN/m) due to specimens slipping in the jaws.

3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

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| 2193 | Methods for calibration and grading of force-measuring systems of testing machines |
| 3704 | Geotextiles—Glossary of terms |
| 3706 | Geotextiles—Methods of test |
| 3706.1 | Method 1 General requirements, sampling, conditioning, basic physical properties, and statistical analysis |

BS

- | | |
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| 6906 | Methods of test for geotextiles |
| 6906.1 | Part 1: Determination of the tensile properties using a wide width strip |

ASTM

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| D 4595-86 | Test method for tensile properties of geotextiles by the wide width strip method |
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4 PRINCIPLE

The specimen is gripped across its entire width in the jaws of a tensile testing machine which is operated at a prescribed constant rate of extension. A longitudinal force is applied to the specimen until it ruptures (breaks). Various tensile properties of the test specimen are recorded.

* This method is based on ASTM D 4595-86, Test method for tensile properties of geotextiles by the wide width strip method. The original ASTM method appears in Volume 04.08 of the Annual Book of ASTM Standards, copyright American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103, USA. Copies of this ASTM method or the entire Volume 04.08, may be obtained either from Standards Australia or ASTM direct.