

STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 2001.5.2—1995

Methods of test for textiles

Method 5.2: Dimensional change—Determination of relaxation and hygral properties of woven fabrics

RECONFIRMATION NOTICE

Technical Committee TX-020 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

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Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 6 July 2016.

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Methods of test for textiles

Method 5.2: Dimensional change—Determination of relaxation and hygral properties of woven fabrics

PREFACE

This Standard was prepared by the Standards Australia Committee on Testing of Textiles.

In order to assess the dimensional stability of woven fabrics in tailoring and subsequent wear, it is necessary to examine each of the two distinctly different properties. Firstly, the potential of the fabric to shrink due to stresses incurred during finishing and then having removed these stresses, to evaluate the degree to which the fabric will expand and contract in proportion to moisture content. These properties are commonly termed *relaxation shrinkage* and *hygral change* respectively.

Results obtained from this method provide a guideline as to the maximum level of relaxation shrinkage that may occur within a given fabric and the hygral expansion/contraction that can occur in taking the fabric from zero regain to saturation and vice versa.

METHOD

1 SCOPE This Standard describes a procedure for determining the relaxation shrinkage and hygral change properties of woven fabrics.

2 OBJECTIVE This Standard is intended to provide manufacturers and others seeking to determine the dimensional stability of a fabric due to processing, as well as its moisture content with a suitable method for obtaining that information.

3 APPLICATION This Standard applies to woven fabrics. It does not apply to knitted fabrics because they lack stability in the wet state.

4 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

- AS 1901 Sampling procedures and tables for inspection by attributes
- 2001 Methods of test for textiles
- 2001.1 Method 1: Conditioning procedures

5 DEFINITIONS For the purpose of this Standard, the definitions below apply.

5.1 Hygral change—the reversible dimensional change which occurs when fabrics absorb and desorb moisture.