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Methods of test for

Elastic fabrics

Gr6

British Standards Institution



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The following BSI references relate to the work on this standard:
Committee reference T/15 Draft for comment 72/70006

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British Federation of Narrow Elastic Manufacturers
British Launderers' Research Association
British Man-made Fibres Federation
Corsetry Manufacturers' Association
Cotton Silk and Man-made Fibres Research Association

Hosiery and Allied Trades Research Association
Knitting Industries Federation
Ministry of Defence (Army)
Narrow Fabrics Federation
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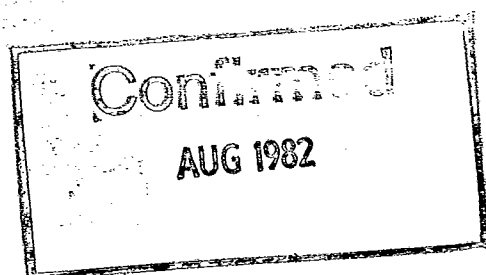
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Foreword

This British Standard has been prepared under the supervision of the Textile Divisional Council.

The methods given in this standard replace those previously included in Handbook No. 11 as recommended procedures for elastic narrow fabrics. These have been amended and brought into line with current practice and new methods have been added.

British Standard Methods of test for Elastic fabrics

Methods

1. General

1.1 Scope

The methods described in this British Standard are applicable to elastic fabrics, both narrow and wide, incorporating elastomeric threads.

NOTE. The titles of the British Standards referred to in this standard are listed on the inside back cover.

1.2 Definition

For the purposes of this British Standard the following definition applies:

Elastomeric thread. The component, i.e. natural or synthetic rubber, or polyurethane, conferring the elastic properties on the fabric.

1.3 Apparatus

Apparatus for producing and maintaining the standard atmosphere for testing textiles as specified in 1.4 is required for all the tests. Additional apparatus required for individual tests is listed in the appropriate sections.

1.4 Conditioning and testing atmosphere

The atmosphere used for conditioning and for testing shall be the standard atmosphere for testing textiles as specified in BS 1051 (i.e. a temperature of 20 ± 2 °C and relative humidity of 65 ± 2 %).

1.5 Procedure common to all methods

1.5.1 Selection of samples. Take samples of fabric from which test specimens will be cut to represent adequately the fabric under test.

1.5.2 Specimens of weft knitted fabric. Prevent the cut edges of weft knitted test specimens from laddering by some method which will neither restrict the extension and retraction of the fabric, nor alter its modulus characteristics to any significant extent.

NOTE. It may be possible to use an expandable seam, or alternatively the cut edges may be sealed with a sparing application of latex adhesive followed, when the latex is dry, by a dusting of talc to prevent sticking.

1.5.3 Specimens of woven fabric. For fabrics likely to fray during testing, cut specimens 75 mm wide and fray them down to a width of 50 mm by removing excess threads parallel to the cut edges.

1.5.4 Conditioning. Condition the samples from which the test specimens will be taken for a period of not less than 16 h in a free, un-restrained state in the standard atmosphere for testing (see 1.4).

1.5.5 Testing. Conduct all tests in the standard atmosphere for testing (see 1.4).

1.6 Report

The report of a particular test shall state that it was performed in accordance with this standard in addition to the test results required by individual methods.

2. Method for conditioning specimens for test

2.1 Atmosphere

Subject the specimens in a loose unrolled state to the standard atmosphere for testing textiles as defined in 1.4.