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**Determination method and evaluation
reference of shape stability shirt**

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Foreword

This Japanese Industrial Standard has been established by the Minister of Economy, Trade and Industry, through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law.

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Determination method and evaluation reference of shape stability shirt

Introduction

Various products with enhanced shape stability and processing durability, such as of men's shirt, working wear and women's blouse, that are designated as shape stability or permanent-press products, are currently in market. The shape stability of these products is achieved by subjecting the product and/or the fabric to chemical treatment such as resin treatment, and sewing process by an appropriate technique.

This Japanese Industrial Standard specifies the evaluation method for shirts that are processed to have shape stability, regardless of the processing method used.

No corresponding International Standard has been established at this point.

1 Scope

This Standard specifies the method for evaluating the shape stability performance of shirts that are processed with a shape stability treatment.

"Shirts" as referred to in this Standard include long-sleeved and short-sleeved shirts for which fitting property of collar girth and sleeve length is strongly required, and do not include casual shirts.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS C 7617-2 *Double-capped fluorescent lamps — Part 2 : Performance specifications*

JIS L 0105 *General principles of physical testing methods for textiles*

JIS L 0112 *Glossary of terms on parts and measurements of clothes*

JIS L 0215 *Glossary of terms on clothes*

JIS L 0220 *Glossary of terms used in textile industry — Inspection*

JIS L 0803 *Standard adjacent fabrics for staining of colour fastness test*

JIS L 0805 *Grey scale for assessing staining*

JIS L 1096 *Testing methods for woven and knitted fabrics*

JIS L 1905 *Methods for assessing the appearance of seam pucker on textiles*

JIS L 1930 *Textiles — Domestic washing and drying procedures for textile testing*

*JIS Z 8703 Standard atmospheric conditions for testing***3 Terms and definitions**

For the purpose of this Standard, the terms and definitions given in **JIS L 0105**, **JIS L 0112**, **JIS L 0215** and **JIS L 0220**, and the following apply.

3.1 shape stability

property imparting a performance equal to or better than the reference levels with respect to all the evaluation items including the fabric surface appearance, seam puckering, shape retainability and dimensional change after washing

3.2 shape stability shirt

shirt processed so as to have shape stability

3.3 shape retainability

shape stability of collar, sleeve cuff and placket front

4 Test environment

The test environment shall be maintained at the ordinary temperature and ordinary humidity as specified in **JIS Z 8703**.

5 Sampling and preparation of samples

Three shirts withdrawn from the same production lot by an appropriate sampling method shall be used. If other number of samples and other evaluation method than specified in this Standard have been used upon agreement between the interested parties, it shall be reflected in the test report.

6 Apparatus and materials**6.1 Observation apparatus**

6.1.1 Darkroom, fitted with black curtains or the like and constructed to minimize effect of reflection from the surroundings.

6.1.2 Illuminating lamp, of FL40S·W specified in **JIS C 7617-2**, capable of providing illuminance of 300 lx to 600 lx at the centre of a viewing board set at a distance (height) of 1 500 mm from the floor surface. The illuminance should always be constant.

6.1.3 Viewing board, the surface of which is inclined by 5° from the vertical plane, and the surface colour of which is equivalent to b₂ of rating No.2 on the grey scale for assessing staining specified in **JIS L 0805**, normally having a size of 1 850 mm or more in length and 1 200 mm or more in width.

6.1.4 Hanger, 20 mm to 30 mm in shoulder tip thickness and adjustable to the shoulder width of the shirt under test.

6.2 Standards for evaluation