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**TEXTILES - MONOFILAMENTS -
DETERMINATION OF TENSILE PROPERTIES**

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English version

Textiles - Monofilaments - Determination of tensile properties

Textiles - Monofilaments - Détermination des propriétés en traction

Textilien - Monofilamente - Bestimmung der Zugdehnungseigenschaften

This European Standard was approved by CEN on 21 November 2002.

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Foreword

This document (EN 13895:2003) has been prepared by Technical Committee CEN /TC 248 "Textiles and textile products", the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2003, and conflicting national standards shall be withdrawn at the latest by September 2003.

Annexes A, B, C and D are informative.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This draft European Standard specifies a method for the determination of tensile properties of monofilaments.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 13392, *Textiles — Monofilaments - Determination of linear density*

EN 20139, *Textiles — Standard atmospheres for conditioning and testing (ISO 139:1973)*

EN ISO 7500-1: *Metallic materials — Verification of static uniaxial testing machines — Part 1: Tension/compression testing machines (ISO 7500-1:1999)*

3 Terms and definitions

For the purposes of this European Standard, the following terms and definitions apply:

3.1 monofilament

yarn made with only one filament

3.2 pretension

tension applied to a specimen at the beginning of the test to establish the gauge length

3.3 gauge length

length of the specimen measured between the clamping points under pretension. In bollard or capstan clamps, it is the distance between their gripping points, measured along the path of the monofilament

3.4 constant rate of extension (CRE) dynamometer

tensile testing machine where one clamp is stationary and the other is moving with a constant speed throughout the test, and where the entire testing system is virtually free from deflection

3.5 clamps

parts of the testing device which are used to grip the specimen by means of suitable jaws

3.6 jaws

elements of a clamp which grip the specimen without damaging it and which prevent slippage during the test

3.7 package

method of presentation of the monofilament, e.g. spool, tube, cone

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