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Textiles – Monofilaments – Determination of linear density

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Textil – Monofilament – Bestämning av linjär massa (fiberfinlek)

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English version

Textiles - Monofilaments - Determination of linear density

Textiles - Monofilaments - Détermination de la masse
linéique

Textilien - Monofilamente - Bestimmung der Feinheit

This European Standard was approved by CEN on 18 January 2001.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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Contents

	Page
Foreword	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 Principle	4
5 Apparatus	5
6 Sampling and preparation of test specimens	5
7 Conditioning	5
8 Procedure	5
9 Expression of results	6
10 Test report	6
Annex A (normative)	7

Foreword

This European Standard 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of an identical text or by endorsement, at the latest by September 2001, and conflicting national standards shall be withdrawn at the latest by September 2001.

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, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This European Standard specifies a method for the determination of linear density of monofilaments and gives the method of calculation of the nominal linear density of round monofilaments (see annex A).

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 20139 Textiles - Standard atmospheres for conditioning and testing (ISO 139 :1973).

3 Terms and definitions

For the purposes of this standard, the following terms and definitions apply.

3.1 monofilament

yarn made with only one filament

3.2 linear density

mass per unit length of a monofilament expressed in tex or its multiples or submultiples

NOTE 1 tex = 1 g/1000 m.

3.3 tension

a force applied to a test specimen during a test

3.4 nominal diameter

cross dimension of round monofilament and expressed in millimetres

3.5 package

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

4 Principle

Test specimens of suitable length are prepared according to the diameter of the monofilament, conditioned and weighed.

The linear density is calculated from the length and mass of the test specimens and expressed in decitex.