INTERNATIONAL STANDARD

ISO 20932-1

Textiles — Determination of the elasticity of fabrics —

Part 1:
Strip tests

AMENDMENT 1

Textiles — Détermination de l'élasticité des étoffes —
Partie 1: Essais sur bande

AMENDEMENT 1

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This document was prepared by Technical Committee ISO/TC 38, *Textiles*, Subcommittee SC 24, *Conditioning atmospheres and physical tests for textile fabrics,* in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 248, *Textiles and textile products,* in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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Part 1:
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3.19

Replace the definition and note to entry with the following:

ratio of recovered extension of the test specimen after cycling (to a specified force or specified extension) to its initial length

Note 1 to entry The recovered elongation is the complement of the *permanent deformation* (3.18) to the *elongation* (3.11).

Note 2 to entry   Recovered elongation is expressed as a percentage.

9.1.12

Replace the sentence with the following:

Set the extension and retraction rate of the specimen at 100 % of the initial length per minute. It means that, for examples, if the initial length is 100 mm, set up the rate at 100 mm/min; if the initial length is 200 mm, set up the rate at 200 mm/min.

Clause 11, a)

Replace item a) with the following:

a)   Elongation, $S_\%$, expressed as a percentage, as shown in Formula (1):

$$S_\% = 100 \times \frac{E}{P} \tag{1}$$

where

E is the extension (mm), increase in length of the initial distance (mm) between applied reference marks at maximum force on the fifth cycle; or, in case a pretension is used, increase in length of the clamp distance (mm) from the initial length (mm) at maximum force on the fifth cycle;

P is the initial distance (mm) between applied reference marks; or, in case a pretension is used, the initial length (mm).

Clause 11, d)

Replace item d) with the following:

d) Permanent deformation, *C,* expressed as a distance, and permanent deformation $C_\%$, expressed as a percentage, as shown in Formula (4) and in Formula (5), respectively:

$$C = Q - P \tag{4}$$

$$C_\% = 100 \times \frac{Q-P}{P} \tag{5}$$

where

> *Q* is the distance (mm) between applied reference marks after the measurement and specified recovery period; or, in case a pretension is used, the final clamp distance (mm) at pretension after a specified recovery period;
>
> *P* is the initial distance (mm) between applied reference marks; or, in case a pretension is used, the initial length (mm). "

Clause 11, e)

Replace item e) with the following:

e)   Recovered extension, *D*, expressed as a distance, and recovered elongation $D_\%$, expressed as a percentage, as shown in Formula (6) and in Formula (7), respectively:

$$D = E - C \tag{6}$$

$$D_\% = 100 \times \frac{E-C}{P} \tag{7}$$

where

> *E* is the extension (mm) as measured in 11, a);
>
> *C* is the permanent deformation (mm) as calculated in 11, d);
>
> *P* is the initial distance (mm) between applied reference marks; or, in case a pretension is used, the initial length (mm).

Clause 11, f)

Replace item f) with the following:

f)   Elastic recovery, *R*, expressed as a distance, and elastic recovery $R_\%$, expressed as percentage as shown in Formula (8) and in Formula (9), respectively:

$$R = (P+E) - Q = E - (Q-P) = E - C \tag{8}$$

$$R_\% = 100 \times \frac{E-C}{E} = 100 \times \left(1 - \frac{C}{E}\right) \tag{9}$$

where

E is the extension (mm) as measured in 11, a);

C is the permanent deformation (mm) as calculated in 11, d).

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