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Slide fasteners (zips) - Specification

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Slide fasteners (zips) - Specification

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Contents	Page
European foreword.....	5
Introduction	6
1 Scope.....	7
2 Normative references.....	7
3 Terms and definitions	8
4 Requirements.....	10
5 Conditioning and testing	12
5.1 Conditioning of test samples.....	12
5.2 Slide fastener length measurement.....	12
5.3 Strength of puller attachment	12
5.4 Strength of closed-end.....	12
5.5 Strength of top stop	12
5.6 Strength of open-end slide fastener box.....	13
5.7 Resistance to reciprocation.....	13
5.8 Lateral strength of slide fastener	13
5.9 Lateral strength of open-end attachment	13
5.10 Strength of slider locking device	13
5.11 Open-end slide fastener single stringer slider retention	13
5.12 Torque strength.....	13
6 Washing and dry cleaning test	13
7 Test report.....	14
8 Marking.....	14
Annex A (informative) Guidance on factors to be taken into consideration when specifying slide fasteners	18
Annex B (normative) Test for strength of puller attachment	19
B.1 Principle	19
B.2 Apparatus.....	19
B.2.1 Constant rate of extension tensile testing machine.....	19
B.2.2 Fixture to retain the slider body rigidly	19
B.3 Procedure.....	19
Annex C (normative) Test for strength of closed-end.....	21
C.1 Principle	21
C.2 Apparatus.....	21
C.2.1 Constant rate of extension tensile testing machine.....	21
C.2.2 Clamping device.....	21
C.3 Procedure.....	22
Annex D (normative) Test for strength of top stop.....	23

D.1	Principle	23
D.2	Apparatus	23
D.3	Procedure	24
Annex E (normative) Test for strength of open-end slide fastener box		25
E.1	Principle	25
E.2	Apparatus	25
E.2.1	Constant rate of extension tensile testing machine	25
E.2.2	Slotted plate	25
E.3	Procedure	26
Annex F (normative) Test for resistance to reciprocation		27
F.1	Principle	27
F.2	Apparatus	27
F.3	Procedure	28
F.3.1	Preparation of the specimens	28
F.3.2	Method	29
Annex G (normative) Test for lateral strength of slide fastener		31
G.1	Principle	31
G.2	Apparatus	31
G.2.1	Constant rate of extension tensile testing machine	31
G.2.2	Jaws	31
G.3	Procedure	31
Annex H (normative) Test for lateral strength of open-end attachment		32
H.1	Principle	32
H.2	Apparatus	32
H.2.1	Constant rate of extension tensile testing machine	32
H.2.2	Jaws	32
H.3	Procedure	32
Annex I (normative) Test for strength of slider locking device		33
I.1	Principle	33
I.2	Apparatus	33
I.2.1	Constant rate of extension tensile testing machine	33
I.2.2	Jaws	33
I.3	Procedure	33
Annex J (normative) Test for open-end slide fastener single stringer slider retention		34
J.1	Principle	34
J.2	Apparatus	34

J.2.1	Constant rate of tension tensile testing machine	34
J.2.2	Jaws	34
J.3	Procedure.....	34
	Annex K (normative) Torque test.....	35
K.1	Principle	35
K.2	Apparatus.....	35
K.3	Procedure.....	36
K.3.1	Preparation of the specimens.....	36
K.3.2	Method	36
K.4	Test to failure method for quality control	36
	Annex L (informative) Sampling procedures for bulk quantities of slide fasteners.....	38
L.1	General.....	38
L.2	Guidance on interpretation of results for acceptance purposes	38
L.3	Guide to changing from normal to tightened test procedures.....	38
	Annex M (informative) End-uses and recommended performance codes for labelling purposes	39
	Bibliography.....	40

European foreword

This document (EN 16732:2015) 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 June 2016, and conflicting national standards shall be withdrawn at the latest by June 2016.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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Introduction

The different types of slide fasteners are defined by the material of the elements (teeth), which form their slide fastener chains. They can be of metallic, moulded plastic or monofilament plastic construction.

Metallic elements can be produced from flat or profiled wire and are usually clamped around the edge of a beaded tape. An alternative approach is to cast metallic elements directly onto such a tape. Similarly, plastic elements can be moulded onto a beaded tape. Such cast or moulded elements might have projections on which the slider operates to reduce abrasion of the tape.

Plastic coil slide fasteners have polyamide or polyester monofilaments that are wound into coils to form engaging elements. The coils can be attached to the face of flat tapes by sewing. Alternatively, the coils can be woven or knitted into the tapes as they are constructed. Monofilament plastic elements can also be of the meander type, which straddle the tape edge.

Typical slide fastener chain types are shown in Figure 1.

1 Scope

This European Standard specifies performance levels and test methods for the following characteristics of slide fasteners made from interlocking components mounted on tapes: strengths of puller attachment, closed-end, top stop, open-end slide fastener box, reciprocating mechanism, closed slide fastener when extended laterally, open-end attachment when extended laterally, slider locking device, and open-end slide fastener single stringer slider retention and slider resistance to torque.

NOTE The tests specified in Annexes B to K have been specifically devised to permit their direct application to finished slide fasteners with a view to giving the user reasonable assurance that a slide fastener conforming to the requirements of this standard can satisfactorily fulfil its intended purpose. Annex L gives information about sampling procedures for bulk quantities of slide fasteners.

In addition, performance levels are also specified for colour fastness to washing, dry cleaning and water, and for dimensional stability to washing and dry cleaning.

This European Standard is applicable to slide fasteners for general use and is not applicable to slide fasteners for specialist purposes (for example: pressure sealed slide fasteners for diving suits).

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 20105-A02, *Textiles - Tests for colour fastness - Part A02: Grey scale for assessing change in colour (ISO 105-A02)*

EN 20105-A03, *Textiles - Tests for colour fastness - Part A03: Grey scale for assessing staining (ISO 105-A03)*

EN ISO 105-C06, *Textiles - Tests for colour fastness - Part C06: Colour fastness to domestic and commercial laundering (ISO 105-C06)*

EN ISO 105-D01, *Textiles - Tests for colour fastness - Part D01: Colour fastness to dry cleaning using perchloroethylene solvent (ISO 105-D01)*

EN ISO 105-E01, *Textiles - Tests for colour fastness - Part E01: Colour fastness to water (ISO 105-E01)*

EN ISO 139, *Textiles - Standard atmospheres for conditioning and testing (ISO 139)*

EN ISO 3175-2, *Textiles - Professional care, drycleaning and wetcleaning of fabrics and garments - Part 2: Procedure for testing performance when cleaning and finishing using tetrachloroethene (ISO 3175-2)*

EN ISO 5077, *Textiles - Determination of dimensional change in washing and drying (ISO 5077)*

EN ISO 6330, *Textiles - Domestic washing and drying procedures for textile testing (ISO 6330)*

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