



Standard Test Method for Tearing Strength of Fabrics by Falling-Pendulum Type (Elmendorf) Apparatus¹

This standard is issued under the fixed designation D 1424; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This test method covers the determination of the force required to propagate a single-rip tear starting from a cut in a fabric and using a falling-pendulum type (Elmendorf) apparatus.

1.2 This test method applies to most fabrics including woven, layered blankets, napped pile, blanket, and air bag fabrics, provided the fabric does not tear in the direction crosswise to the direction of the force application during the test. The fabrics may be untreated, heavily sized, coated, resin-treated, or otherwise treated. Instructions are provided for testing specimens with, or without, wetting.

1.3 This method is suitable only for the warp direction tests of warp-knit fabrics. It is not suited for the course direction of warp knit fabrics or either direction of most other knitted fabrics.

1.4 The values stated in other SI units or U.S. customary units are to be regarded as standard, but must be used independently of each other. The U.S. customary units may be approximate.

1.5 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:

D 123 Terminology Relating to Textiles²

D 629 Test Methods for Quantitative Analysis of Textiles²

D 689 Test Method for Internal Tearing Resistance of Paper³

D 1776 Practice for Conditioning Textiles for Testing²

D 2904 Practice for Interlaboratory Testing of a Textile Test

Method That Produces Normally Distributed Data²

D 2906 Practice for Statements on Precision and Bias for Textiles²

D 4848 Terminology of Force, Deformation and Related Properties of Textiles⁴

2.2 ASTM Adjuncts:

TEX-PAC⁵

3. Terminology

3.1 Definitions:

3.1.1 *cross-machine direction, CD, n*—the direction in the plane of the fabric perpendicular to the direction of manufacture.

3.1.1.1 *Discussion*—The term cross-machine direction is used to refer to the direction analogous to coursewise or filling direction in woven fabrics, respectively.

3.1.2 *length of tear, n*—in *tear testing of fabrics*, the measured distance propagated in a specimen by a tearing force from the initiation of the test to the termination of the test.

3.1.3 *machine direction, MD, n*—the direction in the plane of the fabric parallel to the direction of manufacture.

3.1.3.1 *Discussion*—The term machine direction is used to refer to the direction analogous to walewise or warp direction in woven fabrics, respectively.

3.1.4 *tearing energy, n*—the work done in tearing a material.

3.1.5 *tearing force, n*—in *fabric*, the force applied to propagate a tear initiated under specified conditions.

3.1.6 *tear resistance, n*—in *textiles*, the resistance to a tearing force.

3.1.7 *tearing strength, n*—in *fabrics*, the force required to propagate a tear after its initiation.

3.1.8 *fabric, n*—in *textiles*, a planar structure consisting of yarns or fibers.

3.1.9 For definitions of other textile terms used in this test method, refer to Terminology D 123. For definitions of other terms related to force and deformation in textiles, refer to Terminology D 4848.

¹ Annual Book of ASTM Standards, Vol 07.02.

² PC programs on floppy disks for analyzing Committee D-13 interlaboratory data are available through ASTM. For 3½ in. disk request PCN: 12-429643-18, for a 5¼ in. disk request PCN: 12-429642-18.

³ This test method is under the jurisdiction of ASTM Committee D-13 on Textiles and is the direct responsibility of Subcommittee D13.60 on Fabric Test Methods, Specific.

Current edition approved May 18, 1996. Published August 1996. Originally published as D 1424 – 56 T. Discontinued January 1995 and reinstated as D 1424 – 96.

⁴ Annual Book of ASTM Standards, Vol 07.01.

⁵ Annual Book of ASTM Standards, Vol 15.09.

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web cad layer standards most common bs 1192 which relies heavily on the code of procedure for the construction industry aia cad layer guidelines 2nd edition 1997 has a great usage in the usa iso 13567 1 3 international standard common in northern europe aec uk an adaptation of bs 1192 based on uniclass

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web standard architectural drawings there are many types of architectural drawings that are required during the process of designing developing and constructing a building some are used at specific times and stages and others such as the floor and site plans are continuously evolved and adapted as the project develops

iso 128 1 2020 technical product documentation tpd - Jan 16 2023

web this document gives general rules for the execution of technical drawings 2d and 3d as well as presenting the structure of the other parts of the iso 128 series this document is applicable to technical drawing in the fields of mechanical engineering construction architecture and shipbuilding

iso drafting standards - Aug 23 2023

web drg directives pdf guidelines for the production of drawing files guidelines for coding iec and iso standards in nisosts pdf these guidelines describe the xml schema as used by iec and iso for the xml versions of published standards taking part resources

iso 01 100 technical drawings - Dec 15 2022

web technical drawings in general 01 100 20 mechanical engineering drawings 01 100 25 electrical and electronics engineering drawings including electrical tables diagrams and charts 01 100 27 technical drawings for telecommunications and information technology fields 01 100 30

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web iso certification for your architecture practice could deliver you the following benefits compliance with regulations and riba requirements efficient and consistent service to clients greater client satisfaction reduced costs and less waste greater ability to deliver projects on time improved reputation among new and existing clients

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web iso 128 43 2015 defines two projection methods used in building drawings namely direct orthographic projection method and mirrored orthographic projection method

iso 128 1 2003 technical drawings general principles of - Apr 19 2023

web iso 128 1 2003 is applicable to all kinds of technical drawings including for example those used in mechanical engineering and construction architectural civil engineering shipbuilding etc it is applicable to both manual and computer based drawings

iso 7519 1991 technical drawings construction drawings - Feb 17 2023

web technical drawings construction drawings general principles of presentation for general arrangement and assembly drawings iso 7519 1991 a standard is reviewed every 5 years stage 90 92 to be revised 00 preliminary 10 proposal 20 preparatory 30 committee 30 00 1980 12 01

british standards institution search bsi group - Aug 11 2022

web bs en iso 4157 3 1999 construction drawings designation systems room identifiers categories drawings construction technical aspects b 555 construction design modelling and data exchange published standard bs en iso 8560 2019 technical drawings construction drawings representation of modular sizes lines and grids

bs 8888 2020 bsi - May 08 2022

web the standard covers all of the symbology and information that engineers and designers need to include on their drawings be they manually produced 2d or in 3d created using cad systems and 3d modelling computer aided design

international iso standard 128 1 - Jul 10 2022

web the documents of the iso 128 series are at the top of the hierarchy of iso standards dealing with the graphical execution of technical drawings 5 fundamental requirements technical drawings 2d and 3d are a specific type of communication technical drawings follow the rules of iso tc 10 and shall conform with the following principles

cad drafting standards facilities planning construction - Mar 06 2022

web some layer attributes in the aia cad guidelines have been predefined by nu fpc with set colors linetypes and specific layer names in order to maximize the printed clarity of archived drawings and to conform to core layer line weight color assignments

iso 128 wikipedia - Nov 14 2022

web iso 128 is an international standard iso about the general principles of presentation in technical drawings specifically the graphical representation of objects on technical drawings 1 overview since 2003 the iso 128 standard contains fifteen parts which were initiated between 1996 and 2003