



Designation: D 737 – 96

Standard Test Method for Air Permeability of Textile Fabrics¹

This standard is issued under the fixed designation D 737; 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 measurement of the air permeability of textile fabrics.

1.2 This test method applies to most fabrics including woven fabrics, nonwoven fabrics, air bag fabrics, blankets, napped fabrics, knitted fabrics, layered fabrics, and pile fabrics. The fabrics may be untreated, heavily sized, coated, resin-treated, or otherwise treated.

1.3 The values stated in SI units are to be regarded as the standard. The values stated in inch-pound units may be approximate.

1.4 *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 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
- F 778 Methods for Gas Flow Resistance Testing of Filtration Media²
- 2.2 ASTM Adjuncts:
TEX-PAC³

Note 1—TEX-PAC is a group of programs on floppy disks available through ASTM Headquarters, 100 Barr Harbor Drive, West Conshohocken, PA 19428.

¹ This test method is under the jurisdiction of ASTM Committee D13 on Textiles and is the direct responsibility of Subcommittee D13.59 on Fabric Test Methods, General.

Current edition approved Feb. 10, 1996. Published April 1996. Originally published as D 737 – 43 T. Discontinued November 1995 and reinstated as D 737 – 96.

² Annual Book of ASTM Standards, Vol 07.05.

³ Annual Book of ASTM Standards, Vol 14.02.

⁴ A PC program on floppy disk for Analyzing Committee D-13 interlaboratory data are available from ASTM Headquarters. For a 3½-in. disk, request PCN-12-428040-1B. For a 5¼-in. disk, request PCN-12-428041-1B.

3. Terminology

3.1 *Definitions*—For definitions of other textile terms used in this test method refer to Terminology D 123.

3.2 Definitions of Terms Specific to This Standard:

3.2.1 *air permeability, a* —the rate of air flow passing perpendicularly through a known area under a prescribed air pressure differential between the two surfaces of a material.

3.2.1.1 *Discussion*—Air permeability of fabric at a stated pressure differential between two surfaces of the fabric is generally expressed in SI units as $\text{cm}^3/\text{s}/\text{cm}^2$ and in inch-pound units as $\text{ft}^3/\text{min}/\text{ft}^2$ calculated at operating conditions.

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

3.2.2.1 *Discussion*—This term is used to refer to the direction analogous to coursewise or filling direction in knitted or woven fabrics, respectively.

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

3.2.4 *machine direction, MD, a* —the direction in the plane of the fabric parallel to the direction of manufacture.

3.2.4.1 *Discussion*—This term is used to refer to the direction analogous to warpwise or warp direction in knitted or woven fabrics, respectively.

4. Summary of Test Method

4.1 The rate of air flow passing perpendicularly through a known area of fabric is adjusted to obtain a prescribed air pressure differential between the two fabric surfaces. From this rate of air flow, the air permeability of the fabric is determined.

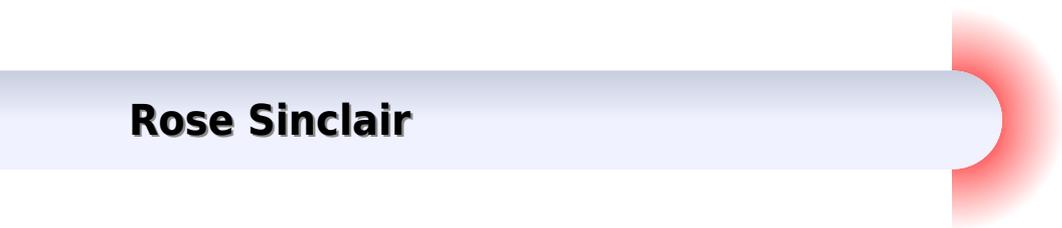
5. Significance and Use

5.1 This test method is considered satisfactory for acceptance testing of commercial shipments since current estimates of between-laboratory precision are acceptable, and this test method is used extensively in the trade for acceptance testing.

5.1.1 In case of a dispute arising from differences in reported test results when using this test method for acceptance testing of commercial shipments, the purchaser and the supplier should conduct comparative tests to determine if there is a statistical bias between their laboratories. Competent statistical assistance is recommended for the investigation of bias. As a minimum, the two parties should take a group of test

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Rose Sinclair



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Handbook of Nonwovens S. J. Russell, 2006-12-22 Nonwovens are a unique class of textile material formed from fibres that are bonded together through various means to form a coherent structure Given their rapid industrial development and diverse markets understanding and developing nonwovens is becoming increasingly important With its distinguished editor and array of international contributors the Handbook of nonwovens offers a comprehensive review of the latest advances in this area and how they can be applied to particular products Initial chapters review the development of the industry and the different classes of nonwoven material The book then discusses methods of manufacture such as dry laid wet laid and polymer laid web formation Other techniques analysed include mechanical thermal and chemical bonding as well as chemical and mechanical finishing systems The book concludes by assessing the characterisation testing and modelling of nonwoven materials Handbook of nonwovens is a valuable reference for those involved in the manufacturing and use of nonwoven products in such areas as transport medicine hygiene and various branches of engineering Provides a comprehensive review of the latest advances in this important area Written by leading experts in the field Discusses different methods of manufacture bonding and finishing *Code of Federal Regulations*, 2003 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries Advanced Textile Testing Techniques Sheraz Ahmad, Abher Rasheed, Ali Afzal, Faheem Ahmad, 2017-08-01 Textile testing is an important field of textile sciences involving experimental evaluation of conventional as well as technical textile products This book aims to provide technical details required protocols and procedures for conducting any specific evaluation test along with key parameters The book covers the topics in two main sections first one for the conventional textile testing techniques starting from fiber to final product while the second one focusses on testing of technical textiles Written with a reader friendly approach it will cater to graduate students in textile engineering as well as industry personnel focusing on following key points Addresses all techniques for testing both conventional and technical textiles Describes testing techniques compliance with the latest requirements of the updated EN ISO and AATCC standards Provides detailed description on the testing of technical textiles and their products Discusses the operations conditions like atmospheric conditions and human error with cause and effect diagrams Covers both destructive and non destructive testing **Clothing Biosensory Engineering** Yan Li, A S W Wong, 2006-04-24 Human sensory perception of clothing involves a series of complex interactive processes including physical responses to external stimuli neurophysiological processes for decoding stimuli through the biosensory and nervous systems inside the body neural responses to psychological sensations and psychological processes for formulating preferences and making adaptive feedback reactions Clothing biosensory engineering is a systematic and integrative way of translating consumers biological and sensory responses and psychological feelings and preferences about clothing into the perceptual elements of design It is a link between scientific experimentation and commercial application to develop economic solutions

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Synthetic Polymeric Membranes for Advanced Water Treatment, Gas Separation, and Energy Sustainability Ahmad Fauzi Ismail, Wan Norharyati Wan Salleh, Norhaniza Yusof, 2020-05-14 Synthetic Polymeric Membranes for Advanced Water Treatment Gas Separation and Energy Sustainability is a cutting edge guide that focuses on advanced water treatment applications covering oily wastewater treatment desalination removal of dyes and pigments photodegradation of organic hazardous materials heavy metal removal removal and recovery of nutrients and volatile organic compounds Other sections examine the area of gas separation including acidic gas removal oxygen enrichment gas and vapor separation hydrogen separation and gas sensing Final sections cover applications for sustainable energy usage including the use of synthetic polymer membranes in proton exchange membrane fuel cells PEMFCs and more This is a highly valuable guide for researchers scientists and advanced students working with polymer membranes and films and across polymer science polymer chemistry materials science chemical e Explains the design preparation and characterization of synthetic polymer based membranes for advanced applications Provides a clear picture of the state of the art in the field including novel fabrication approaches and the latest advances in physico chemical characterizations Supports the development and implementation of innovative sustainable solutions to water treatment gas separation and energy devices

Advances in Technical Nonwovens George Kellie, 2016-05-17 Advances in Technical Nonwovens presents the latest information on the nonwovens industry a dynamic and fast growing industry with recent technological innovations that are leading to the development of novel end use applications The book reviews key developments in technical nonwoven manufacturing specialist materials and applications with Part One covering important developments in materials and manufacturing technologies including chapters devoted to fibers for technical nonwovens the use of green recycled and biopolymer materials and the application of nanofibres The testing of nonwoven properties and the specialist area of composite nonwovens are also reviewed with Part Two offering a detailed and wide ranging overview of the many applications of technical nonwovens that includes chapters on automotive textiles filtration energy applications geo and agrotiles construction furnishing packaging and medical and hygiene products Provides systematic coverage of trends developments and new technology in the field of technical nonwovens Focuses on the needs of the nonwovens industry with a clear emphasis on applied technology Contains contributions from an international team of authors edited by an expert in the field

Offers a detailed and wide ranging overview of the many applications of technical nonwovens that includes chapters on automotive textiles filtration energy applications geo and agrotexiles and more *Textiles and Fashion* Rose Sinclair,2014-11-08 This major textbook is designed for students studying textiles and fashion at higher and undergraduate level as well as those needing a comprehensive and authoritative overview of textile materials and processes The first part of the book reviews the main types of natural and synthetic fibres and their properties Part two provides a systematic review of the key processes involved first in converting fibres into yarns and then transforming yarns into fabrics Part three discusses the range of range of finishing techniques for fabrics The final part of the book looks specifically at the transformation of fabric into apparel from design and manufacture to marketing With contributions from leading experts in their fields this major book provides the definitive one volume guide to textile manufacture Provides comprehensive coverage of the types and properties of textile fibres to yarn and fabric manufacture fabric finishing apparel production and fashion Focused on the needs of college and undergraduate students studying textiles or fashion courses Each chapter ends with a summary to emphasise key points a comprehensive self review section and project ideas are also provided **Annual Book of ASTM Standards** ASTM International,American Society for Testing and Materials,2003 **Code of Federal Regulations, Title 40, Protection of Environment, Pt. 61-62, Revised as of July 1 2007** ,2007-10 The Code of Federal Regulations is a codification of the general and permanent rules published in the Federal Register by the Executive departments and agencies of the United States Federal Government **Annual Book of ASTM Standards** American Society for Testing and Materials,1990 ASTM Standardization News American Society for Testing and Materials,1996 **Performance of Protective Clothing** ,2000 **CODE OF FEDERAL REGULATIONS.** ,2010 **Textile Chemist and Colorist & American Dyestuff Reporter** ,2000 Air Flow Resistance of Commercial Air Purifying Respirator Filter Cartridges Hui-Wen Chang,1992 *Affordable Materials Technology : Platform to Global Value and Performance* Society for the Advancement of Material and Process Engineering,2002 **Polymer Dispersions and Their Industrial Applications** Dieter Urban,Koichi Takamura,2002 Aqueous polymer dispersions are environmentally friendly and therefore they have replaced in many applications polymers dissolved in organic solvents This substitution process is still ongoing This book discusses the world of aqueous polymer dispersions from the viewpoint of how they are applied For a better understanding it starts with a general description of the synthesis of polymer dispersions and their characterization The following chapters are dedicated to a wide variety of applications including history modern processes and typical formulations and performance The selection and the usage of a polymer dispersion are not uniform around the world because of historical and regional differences of the technical developments and marketing demands Leading scientists from industry contributed to this book ensuring that practical issues are emphasized **Book of ASTM Standards** American Society for Testing and Materials,1969 *Standard Test Method for Air Permeability of Textile Fabrics* ASTM International,2012 **The Indian**

Textile Journal Sorabji M. Rutnagur,2014

Reviewing **Air Permeability Astm D737 96 Standard Test Method For Air**: Unlocking the Spellbinding Force of Linguistics

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