



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 Media³

2.2 ASTM Adjuncts:

TEX-PAC⁴

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 07.06.

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-12-429040-1B. For a 5¼-in. disk, request PCN-12-429041-1B.

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, n* —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 or $\text{ft}^3/\text{min}/\text{ft}^2$ calculated at operating conditions.

3.2.2 *cross-machine direction, CD, n* —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, n* —a planar structure consisting of yarns or fibers.

3.2.4 *machine direction, MD, n* —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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George Kellie



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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.

NanoBioMaterials Bhupinder Singh, 2018-06-14 The present book volume presents a holistic view of the aspects of nanobiomaterials incl their stellar merits and limitations, applications in diverse fields, their futuristic promise in the fields of biomedical science and drug delivery. The federal regulatory issues on the usage of nanobiomaterials have been assigned due consideration.

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.

Testing of Textile and Fibrous Materials Apurba Das, 2024-02-28 This book contains detailed knowledge about testing principles of fibre yarn and fabric characteristics, the tensile characteristics of materials and testing of fibrous composites and technical textiles. It starts with an introduction to textile testing and further covers moisture in relation to textile materials, sampling techniques for textile materials and the basic applied statistics, fibre characteristics, fibre length, cotton fibre fineness and maturity characteristics. It also deals with the advanced

characterisation of cotton fibre by using HVI and AFIS systems Features It covers the principles of the testing of textile and fibrous materials along with modern techniques for testing textile materials It reviews all necessary topics related to fibre yarn fabric technical textiles and composite testing It explores the tensile characteristics of textile materials and measurement principles It discusses low stress mechanical characteristics and transmission characteristics It includes a large number of examples and exercises based on actual industrial conditions worldwide including solutions This textbook is aimed at senior undergraduate students in textile testing and evaluation of textile materials Code of Federal Regulations, 2008 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries The Code of Federal Regulations of the United States of America, 1996 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government 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 **Proceeding Book of Proceeding Indonesian Textile Conference : textile 4.0 clothing and beyond (international conference)** Asril Senoaji Soekoco, Karlina Somantri, Valentinus Galih Vidia Putra, 2019-07-27 Welcome to the 3rd Indonesian Textile Conference ITC 2019 It is our great honor and pleasure to have you all here today Indonesian Textile Conference is by far the only scientific event in the field of textiles in Indonesia aimed to bring together leading researchers experts students and people from the industry to share their knowledge and exchange scientific ideas Indonesia is one of the leading textile exporter countries in the world with a total export value of USD 15 3 billion in 2015 and ranked the third after palm oil and steel source Ministry of Industry of Republic of Indonesia It is one of the ten priority industries and the mainstay of Indonesian national industry In a global economy and fast changing world the future of Indonesian textile industry will

increasingly depend on the industry's ability to relentlessly innovate in its products to use the most advanced flexible and resource efficient processes and to focus its organizational structure as well as business operations according to the ever changing and growing needs of its customers. In all that research and innovation are vital and play an ever increasing role. Indonesian Textile Conference was initiated and is dedicated to promote and bring progress to research and innovation in the field of textile and textile related subjects in Indonesia. Textile is a rich multidisciplinary area of study and in fact has attracted a great deal of attention and numerous contributions from non textile scientists. It is not just about clothing. It is all about material and all aspects that are inherent in the process of its production and applications. It covers a whole lot of area which includes but not limited to advanced material and textile fibers, natural fibers and natural dyes, utilization of natural sources for textiles in general and or functional textiles, environmental protection and ecological considerations in textile industry, life cycle analysis, clean green production, best practices in energy efficient processes, bio based polymer, bioengineering, nanotechnology, textile based composites, industrial management and engineering, traditional textiles and batik, textile preservation and conservation and design. Smart functional and interactive textile is another area of interest which is quite recent and resulted from the convergence of latest developments in material science, physics and chemistry, microelectronics and informatics. Stimuli responsive materials, self healing polymers, textile energy devices, textile sensor and antenna are only a few examples of development in this area. Recently added to this is a new emerging fashionable technology. It is a new concept that brings fashion to the next level by integrating technology and fashion. It looks at the future fashion as intersection of design, fashion, science and technology beyond wearable technology. Still another important and interesting issue in textile is sustainability, especially due to the stigma associated with the industry as the big polluter and being not environmentally friendly. Sustainable textiles and clothing involves the choice of materials, technologies and processing methods that ensure environmental and social friendliness and safety to human health throughout the entire life cycle phases. Thus there is an ample room for almost everyone to contribute in this conference. On behalf of the Organizing Committee and the management of Politeknik STTT Bandung have a productive and fruitful conference. *2018 CFR Annual Print Title 40 Protection of Environment - Parts 61 to 62* Office of The Federal Register, 2018-07-01 Title 40 Protection of Environment Parts 61 to 62 **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 to practical technical

problems Clothing biosensory engineering quantifies the decision making processes through which physics mathematics neurophysiological and engineering techniques are applied to optimally convert resources to meet various sensory requirements visual thermal mechanical It includes theoretical and experimental observations computer simulations test methods illustrations and examples of actual product development Describes the process of Clothing biosensory engineering in detail Quantifies the decision making processes applied to optimally convert resources to meet various sensory requirements Includes theoretical and experimental observations and examples of actual product development

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 agrotextiles 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 agrotextiles and more

Functional Nanofibers and their Applications Q Wei, 2012-05-24 Nanofibers are a flexible material with a huge range of potential applications in such areas as technical textiles Functional nanofibers and their applications summarises key trends in the processing and applications of these exciting materials Part one focuses on the types and processing of nanofibers Beginning with an overview of the principles and techniques involved in their production it goes on to review core shell aligned porous and gradient nanofibers The processing and application of composite functional nanofibers carbon and polymer nanofiber reinforcements in polymer matrix composites and inorganic functional nanofibers are then explored in detail before part one concludes with a consideration of surface functionalization A wide variety of functional nanofiber applications are then reviewed in part two Following consideration of their use in filtration drug delivery and tissue engineering applications the role of functional nanofibers in lithium ion batteries sensor applications protective clothing food processing and water purification is explored Discussion of their use in sound absorption electromagnetic wave attenuation and biomedical and microelectronic applications follows before a final discussion of future trends With its distinguished editor and international team of expert

contributors Functional nanofibers and applications is a key text for all those working in the fields of technical textiles as well as areas using nanofibers such as composites biomaterials and microelectronics Summarises key trends in the processing and applications of functional nanofibres in areas such as technical textiles Provides an overview of the principles and techniques involved in the production of nanofibres and reviews core shell aligned porous and gradient nanofibres Considers the use of nanofibres in filtration drug delivery and tissue engineering applications and the role of functional nanofibres in lithium ion batteries sensor applications protective clothing food processing and water purification **Engineering**

Apparel Fabrics and Garments J Fan,L Hunter,2009-05-30 As consumer demands for specific attributes in their textiles increase and global competition intensifies it is important that the industry finds ways of engineering certain performance requirements into textiles and apparel This book reviews how fabrics and garments can be engineered to meet technical performance and other characteristics required for the specific end use Chapters begin with fabric and garment handle and making up performance followed by wear appearance issues such as wrinkling pilling and bagging Further chapters include fabric and garment drape durability related issues as well as physiological and psychological comfort Key topics of fire retardancy waterproofing breathability and ultraviolet protection are also discussed Written by two highly distinguished authors this is an invaluable book for a wide range of readers in the textile and apparel industries ranging from textile and garment manufacturers designers researchers developers to buyers Reviews the engineering of fabrics to meet technical performance requirements for specific end use Chapters examine various wear appearance issues such as wrinkling bagging and fabric and garment drape Discusses durability related issues including fire retardancy and waterproofing as well as psychological and physiological fabric comfort *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 **Code of Federal Regulations, Title 40, Protection of**

Environment, PT. 61-62, Revised as of July 1, 2010 ,2010-08-31 [Active Coatings for Smart Textiles](#) Jinlian Hu,2016-04-06 Active Coatings for Smart Textiles presents the latest information on active materials and their application to

textiles in the form of coatings and finishes for the purpose of improving performance and creating active functional effects This important book provides detailed coverage of smart coating types processes and applications After an introduction to the topic Part One introduces various types of smart and active coatings including memory polymer coatings durable and self cleaning coatings and breathable coatings Technologies and related processes for the application of coatings to textiles is the focus of Part Two with chapters devoted to microencapsulation technology plasma surface treatments and nanotechnology based treatments The book ends with a section on applications of smart textiles with responsive coatings which are increasingly finding commercial niches in sportswear protective clothing medical textiles and architecture Introduces various types of smart and active coatings for textiles Covers technologies and application processes for the coating and finishing of textiles Reviews commercial applications of such coatings including in sportswear protective clothing medical textiles and architecture Advanced Characterization and Testing of Textiles Patricia I. Dolez,Olivier Vermeersch,Valério

Izquierdo,2017-09-19 Advanced Characterization and Testing of Textiles explores developments in physical and chemical testing and specific high performance tests relating to textiles The book introduces the principles of advanced characterization and testing including the importance of performance based specifications in the textiles industry Chapters are organized by textile properties providing in depth coverage of each characteristic Tests for specific applications are addressed with the main focus on high performance and technical textiles Focuses on advanced testing methods for technical and high performance textiles covering state of the art technology in its field Details specific textile properties and associated testing for each characteristic Advanced Optimization and Decision-Making Techniques in Textile Manufacturing Anindya

Ghosh,Prithwiraj Mal,Abhijit Majumdar,2019-03-18 Optimization and decision making are integral parts of any manufacturing process and management system The objective of this book is to demonstrate the confluence of theory and applications of various types of multi criteria decision making and optimization techniques with reference to textile manufacturing and management Divided into twelve chapters it discusses various multi criteria decision making methods such as AHP TOPSIS ELECTRE and optimization techniques like linear programming fuzzy linear programming quadratic programming in textile domain Multi objective optimization problems have been dealt with two approaches namely desirability function and evolutionary algorithm Key Features Exclusive title covering textiles and soft computing fields including optimization and decision making Discusses concepts of traditional and non traditional optimization methods with textile examples Explores pertinent single objective and multi objective optimizations Provides MATLAB coding in the Appendix to solve various types of multi criteria decision making and optimization problems Includes examples and case studies related to textile engineering and management **Modern Textile Characterization Methods** Mastura

Raheel,1996-01-02 This work details current advances in assessing the characteristics of polymers single fibres and fibrous systems and associated processes based on evolving theories in the physical chemical and mechanical sciences It focuses on

recent developments in selected characterization methods such as Fourier transform infrared spectroscopy Fourier transform nuclear magnetic resonance electron diffraction x ray diffraction and electron microscopy applicable to polymers fibres and textiles *Index of Specifications and Standards* ,2005

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