

PROPERTIES OF DIFFERENT MANMADE FIBRE

Properties	Acetate	Elastomeric	Nylon	Polyester	Viscose
i. Polymer	Secondary cellulose acetate	45% segmented polyurethane	Polyhexa methylene diamine and adipic acid	Polyethylene glycol terephthalate	Regenerated cellulose
ii. Dimension	Short	Long	Short	Short	Short
iii. Approximate length	160 nm	Un available	90-140 nm	120-150nm	180nm
iv. Approximate thickness	2.3nm	0.7 nm	0.3 nm	0.6nm	0.8nm
v. Degree of polymerization	130	unavailable	50 to 80	115-140	175
vi. Polymer system	Very amorphous	Extremely amorphous	Very crystalline	Extremely crystalline	Very amorphous
vii. Amorphous region (%)	60	-	35-15	35-15	65-60
viii. Crystalline region (%)	40	-	65-85	65-85	35-40
ix. Tenacity	Very weak	Very weak	Strong to very strong	Strong to very strong	Fair
x. Elastic plastic nature	Plastic	Extremely elastic	Elastic	More elastic than plastic	Plastic
xi. Elongation and corresponding Elastic recovery (%)	2 5 10 15 20	5 10 20 30	2 5 10 15 20	2 4 5 8 10	2 3 10 15 20
	94 73 39 27 23	100 100 100 95	100 98 90 82 75	97 95 87 89 77	82 52 40 34 30
xii. Moisture regain percentage					
➤ At 65% RH	6.5-9.0 %	0.4-1.3%	4.0-4.5%	0.1-0.3%	12-14%
➤ At 95% RH	13.0-16.0%	Unavailable	6.0%	0.4%	25-30%
➤ At 100% RH	18%	3.0%	8.0%	0.4%	45%
xiii. Thermal properties	Extremely heat sensitive	Extremely heat sensitive	Heat sensitive	Heat sensitive	Heat sensitive
xiv. Melting point	260°C	230°C	250-260°C	250-260°C	Does not melt
xv. Decomposition begin	Un available	Un available	315°C	Un available	210°C

Physical Properties Of Textile Fibres

Joseph Merritt Matthews



Physical Properties Of Textile Fibres:

Physical Properties of Textile Fibres J. W. S. Hearle, W E Morton, 2008-10-10 First published in 1962 and now in its fourth edition *Physical properties of textile fibres* has become a classic providing the standard reference on key aspects of fibre performance The new edition has been substantially reorganised and revised to reflect new research After introductory chapters on fibre structure testing and sampling the book reviews key fibre properties their technical significance factors affecting these properties and measurement issues Each chapter covers both natural and synthetic fibres including high performance fibres The book first reviews properties such as fineness length and density It then considers thermal properties and reaction to moisture A further group of chapters then reviews tensile properties thermo mechanical responses fibre breakage and fatigue Finally the book discusses dielectric properties electrical resistance and static optical properties and fibre friction Written by one of the world s leading authorities the fourth edition of *Physical properties of textile fibres* consolidates its reputation as a standard work both for those working in the textile industry and those teaching and studying textile science A standard reference on key aspects of fibre performance An essential read and reference for textile technologists fibre scientists textile engineers and those in academia Provides substantial updated material on fibre structure and new test methods data and theories regarding properties of textile fibres *Physical Properties of Textile Fibres* W. E. Morton, 1975 **Physical properties of textile fibres** William E. Morton, John W. S. Hearle, 1986 [The Textile Fibers](#) Joseph Merritt Matthews, 1913 **Effect of Mechanical and Physical Properties on Fabric Hand** H Behery, 2005-10-31 It is a consumer s instinct to use the sense of touch when choosing a garment to describe and assess the fabric quality and its suitability for a specific end use The way that the fabric feels is described as its handle or fabric hand Fabric hand can be evaluated by mechanical or electronic devices and by human judges using psychophysical or psychological techniques *Effect of mechanical and physical properties on fabric hand* thoroughly explores the techniques and issues involved in this difficult subject It begins by looking at the concepts of fabric hand with chapters on the developments in hand measurement the application of statistical methods and the differences in fabric hand between different cultures The second part is devoted to the different effects fiber yarn and fabric can have on fabric hand The effect of factors including fiber yarn and woven fabrics are all outlined in separate chapters Finally the third section describes the effect that processing has on fabric hand This includes processes such as wet processing and chemical finishing mechanical finishing and refurbishing Finally two important appendices are included for reference Appendix A is from the Hand Evaluation and Standardization Committee and outlines the Kawabata system for standardization and analysis of hand evaluation Appendix B describes the SiroFAST system of fabric assurance by simple testing developed by CSIRO Australia With an international panel of distinguished contributors *Effect of mechanical and physical properties on fabric hand* provides comprehensive coverage on the subject It will be an essential work for those researching and working in apparel and fashion design textile selection fabric designers

and developers manufacturers and those interested in fabric dyeing and finishing Essential reading for all those working in apparel and fashion design textile selection fabric design and development and fabric manufacturers Covers statistical methods in evaluating hand and a comparison of hand evaluation in different cultures Looks at the effect processing has on fabric hand

Physical Properties of Textile Fibres William Ernest Morton, J. W. S. Hearle, 1993 Encyclopedic in scope this is the foremost guide and reference to the structure and physical properties of textile fibers It covers in detail all physical properties relevant to natural and synthetic textile fibers A 73 page foundation chapter provides a thorough introduction to fiber structure followed by separate chapters on each of 25 physical properties Each of these chapters provides a detailed examination of basis in theory practical considerations in applications experimental techniques and findings Two chapters added to this third edition cover high performance fibers and flex fatigue and other forms of failure The 738 page text is illustrated by more than 500 photographs micrographs diagrams and other schematics The text is supplemented by more than 100 tables and graphs providing properties and performance data in convenient form

Chemistry of the Textiles Industry C. Carr, 1995-05-31 The manufacture and processing of textiles is a complex and essential industry requiring many diverse skills to ensure profitability New products are continually being developed and reflect the energy and innovation of those working in the field This book focuses on the technological aspects of the chemical processing of textiles and on the modifications necessary for specific work environments Coverage ranges from fibre structure and its relationship to tensile properties textile aesthetics comfort physiology and end use performance through to the effect of domestic processing by the consumer on the textile product The industry is constantly under environmental pressure and the book examines the nature of environmental control and the development of alternative technology to produce less environmental impact In order to provide a balanced view of the current situation authors have been drawn from academia research institutes and industry to produce a text that will be useful to both industrial readers and university students In conclusion I would like to thank the authors for their dedication and their contributions

The Textile Fibers Joseph Merritt Matthews, 1936 General classification Asbestos as a textile fiber Wool its origin and classification Physical structure and properties of wool The chemical nature and properties of wool and hair fibers Action of chemical agents on wool Reclaimed wool and shoddy Minor hair fibers Silk its origin and cultivation Physical properties of silk Cotton Chemical properties of cotton Linen Jute ramie and hemp General analysis of the textile fibers Testing of textile fabrics Analysis of fibers and yarns in fabrics

The Textile Fibres Joseph Merritt Matthews, 1913 *Fiber Fracture* M. Elices, J. Llorca, 2002-11-15 The idea for this book came out of the EURESCO Conference on High Performance Fibers Euroconference on Fiber Fracture in 2000 Many of the books that are currently available look at different aspects of fiber processing properties or applications but none are focussed on the fracture behaviour of fibers This book presents the mechanisms and models of fiber fracture currently available for both natural and synthetic fibers and it is expected that increasingly there will

be cross fertilization between the fields opening new frontiers in academic research and more competitive products for industry It covers the following areas of fiber fracture ceramic fibers glass fibers carbon filters metallic fibers and thin wires polymeric fibers and carbon nanotubes **TEXTILE FIBRES THEIR PHYSICAL** J. Merritt (Joseph Merritt) 1.

Matthews,2016-08-29 **The Textile Fibers** J. Merritt Matthews,1904 The Textile Fibers J. Merritt Matthews,1916

Introduction to Textile Fibres H. V. Sreenivasa Murthy,2018-10-08 Introduction to Textile Fibres provides necessary information for beginners In many textile institutions this book was widely referred by students and staff for teaching diploma and degree courses In 1989 the book won the coveted Best Technical Book in Textile Century Mills Award through Textile Association India This revised edition of the book offers new topics and updated statistical figures Textile Fibers and Spinning Technology Mr. Rohit Manglik,2024-03-27 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels Physical Properties of Textiles Reginald Meredith,H. G. Woods,Textile Institute,195?

Matthews' Textile Fibers Herbert Richard Mauersberger,1954 *The Textile Fibers* Joseph Merritt Matthews,2017-10-27 Excerpt from The d104ile Fibers Their Physical Microscopical and Chemical Properties Since the last edition of this volume of ten years ago there has been so much new matter appearing in the field of textile fibers that the author has been under the necessity of entirely rewriting and rearranging the book In the present edition therefore the reader will find that a great deal of new matter has been introduced and the general plan of the book has been readjusted to meet The demands of a logical development of the subject The field of textile chemistry and the processing of textile fibers has taken on new proportions during the past ten years To mention only one branch of the subject the artificial silk industry for example has expanded until at the present time more artificial silk is made than is obtained as a natural product from the silkworm The use of mercerised cotton has become an established factor in the cotton industry and has become stabilised into a standard process The World War caused much research into the possibilities of utilising other fibers than those normally employed and we find a great variety of experimenting such as in the spinning of the so called staple fiber yarns Some of these sporadic attempts have passed out with the necessity of their use while others have shown themselves to be of sufficient worth to remain in the general body of textile products The fact that several reprintings were called for in the third edition of this book has encouraged the author to feel that his attempt to bring together such a large mass of scientific and technical data concerning the textile fibers has been more or less appreciated by those interested in the fiber industries He has scoured the literature of this country and Europe rather thoroughly in the search for information and anything of interest or value he has not hesitated to take and has endeavored to fit it in its proper place in this volume The patent literature has also been thoroughly digested though it has been the author s experience that in this province great care must be exercised

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Fibres to Smart Textiles Asis Patnaik, Sweta Patnaik, 2019-08-08 *Fibres to Smart Textiles* Advances in Manufacturing Technologies and Applications offers comprehensive coverage of the fundamentals and advances in the textile and clothing manufacturing sectors It describes the basics of fibres yarns and fabrics and their end use in the latest developments and applications in the field and addresses environmental impacts from textile processes and how to minimize them This book serves as a single comprehensive source discussing textile fibres yarn formation filament formation techniques woven fabric formation knitting technologies nonwoven manufacturing technologies braiding technologies and dyeing printing and finishing processes Testing of textile materials environmental impacts of textile processes and use of CAD and CAM in designing textile products are also included The book also discusses applications including textile composites and biocomposites technical textiles smart textiles and nanotextiles With chapters authored by textile experts this practical book offers guidance to professionals in textile and clothing manufacturing and shows how to avoid potential pitfalls in product development

Understanding and Improving the Durability of Textiles Patricia A Annis, 2012-09-11 The ability of a fabric to resist wear is an essential aspect of its performance Understanding and improving the durability of textiles provides a comprehensive guide to the factors affecting the durability of a range of different textiles Part one addresses the different factors that affect textile durability including the influence of fabric construction and fibre type as well as properties affecting strength and dimensional stability Colour fastness and the effects of light are discussed along with methods for testing and improving wrinkle resistance and textile durability Part two goes on to explore the durability of particular types of textile including antimicrobial textiles protective clothing historic textiles silk and geotextiles With its distinguished editor and international team of expert contributors *Understanding and improving the durability of textiles* is an indispensable book for textile scientists technologists engineers and those designing testing and manufacturing textiles It also provides a comprehensive guide to textile durability for researchers and academics of all levels in this sector Provides a comprehensive guide to the factors affecting the durability of a range of different textiles Discusses colour fastness and the effects of light and methods for testing and improving wrinkle resistance and textile durability Explores the durability of particular types of textile

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