

## **Creep Behavior of Linear Low-Density Polyethylene Films**

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### **Abstract**

The Creep of biaxially-orientated linear low-density polyethylene (LLDPE) non-crosslinked and crosslinked with  $\beta$ -irradiation was studied as a function of the draw ratio and irradiation dose. The creep results have shown an increase in the creep strain after the polymer irradiation with a dose below 4 Mrad (MR) in comparison with a non-irradiated film. This increase corresponds to the disorientation in the amorphous phase, which takes place as a result of the film heating during irradiation. This disorientation was demonstrated by differential scanning calorimetry (DSC) and X-ray analysis.

**Key words:** polyethylene films, orientation,  $\beta$ -irradiation, crosslinking, creep.

### **Introduction**

Biaxially-oriented polyethylene films are widely used in the packaging industry. These films are extensively used for flexible packaging of a broad spectrum of products. They provide a very good combination of physical and mechanical properties, which meet the demands and technical requirements of the packaging industry.<sup>(1,2)</sup>

There are several processes for the production of oriented films, among them biaxial orientation by the double-bubble process, or tubular orientation process. During this process the primary extruded tube is quenched, reheated to a temperature below the melting point and then simultaneously oriented in both machine direction (MD) and transverse direction (TD). The stretching (orientation) that takes place below the melting point is the most important difference between this process and the well-known blown process. During the winding of films at various stages of the technological process, stress is applied to the film in order to wind it smoothly. When the film is wound into reels, the film constituting the inner layers of the reel cannot release its elastic deformation because the outer layers compress it. It has been found that when the film is kept under stress without a possibility to release its deformation, wrinkling takes place in the film,

making it unsuitable for subsequent use. This phenomenon is caused by the viscoelastic behavior of the polymer, which can be characterized by the creep and stress relaxation. Therefore, the study of viscoelastic properties and the morphology of oriented films is necessary from both scientific and technological viewpoints.

A potential problem associated with the long-term use of polyethylene is its tendency to "creep", that is, to deform gradually under sustained load. It is especially prevalent in polyethylene with modest levels of crystallinity.<sup>(3)</sup> The poor creep performance of polyethylene can exclude it from a wide range of applications. During orientation, considerable structural changes in polyethylene occur, e.g. its transformation from the spherulitic into the fibril structure.<sup>(7-9)</sup>

Earlier, the influence of irradiation (mainly  $\gamma$ ) on the creep behavior of polyethylene was studied by:<sup>(10, 11, 12, 13, 14)</sup> The results for ultra-high molecular weight polyethylene manifest a decrease in the creep strain with the growth of the irradiation dose. Ward with coauthors (1986, 1994, 2003) studied the influence of  $\beta$ -irradiation on the creep behavior of uniaxially oriented polyethylene film. The influence of the morphology on creep behavior of melt-extruded polyethylene films was investigated by.<sup>(14)</sup> However, the creep behavior of

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# Creep Behavior Of Linear Low Density Polyethylene Films

**JS Bruner**



## **Creep Behavior Of Linear Low Density Polyethylene Films:**

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Wahab,2022-03-28 This book gathers outstanding papers on numerical modeling in Mechanical Engineering Volume 2 as part of the 2 volume proceedings of the 4th International Conference on Numerical Modeling in Engineering NME 2021 which was held in Ghent Belgium on 24 25 August 2021 The overall objective of the conference was to bring together international scientists and engineers in academia and industry from fields related to advanced numerical techniques such as the finite element method FEM boundary element method BEM isogeometric analysis IGA etc and their applications to a wide range of engineering disciplines This book addresses numerical simulations of various mechanical and materials engineering industrial applications such as aerospace applications acoustic analysis bio mechanical applications contact problems and wear heat transfer analysis vibration and dynamics transient analysis nonlinear analysis composite materials polymers metal alloys fracture mechanics fatigue of materials creep mechanical behavior micro structure phase transformation and crystal plasticity Publications of the National Institute of Standards and Technology ... Catalog National Institute of Standards and Technology (U.S.),1992 **Challenges in Mechanics of Time Dependent Materials, Volume 2** Meredith

Silberstein,Alireza Amirkhizi,2025-08-07 Challenges in Mechanics of Time Dependent Materials Volume 2 of the Proceedings of the 2020 SEM Annual Conference Exposition on Experimental and Applied Mechanics the second volume of seven from the Conference brings together contributions to this important area of research and engineering The collection presents early findings and case studies on fundamental and applied aspects of Experimental Mechanics including papers in the following general technical research areas Characterization Across Length Scales Extreme Environments Environmental Effects Soft Materials Damage fatigue and Fracture Inhomogeneities Interfaces Viscoelasticity Research in Progress *Scientific Ballooning in the Next Century* P. C. Agrawal,Jack Tueller,2002 Properties and Performance of Natural-Fibre Composites Kim Pickering,2008-06-23 Concern about global warming has led to renewed interest in the more sustainable use of natural fibres in composite materials This important book reviews the wealth of recent research into improving the mechanical properties of natural fibre thermoplastic composites so that they can be more widely used The first part of the book provides an overview of the main types of natural fibres used in composites how they are processed and in particular the way the fibre matrix interface can be engineered to improve performance Part two discusses the increasing use of natural fibre composites in such areas as automotive and structural engineering packaging and the energy sector The final part of the book discusses ways of assessing the mechanical performance of natural fibre composites With its distinguished editor and team of contributors Properties and performance of natural fibre composites is a valuable reference for all those using these important materials in such areas as automotive and structural engineering Provides an overview of the types of natural fibres used in composites Discusses fibre matrix interface and how it can be engineered to improve performance Examines

the increasing use of natural fibre composites in automotive and structural engineering and the packaging and energy sector

**32nd Aerospace Sciences Meeting & Exhibit: 94-0640 - 94-0669**, 1994      **Official Gazette of the United States Patent and Trademark Office** United States. Patent and Trademark Office, 1988      *International Aerospace Abstracts*, 1999      *SPE/ANTEC 2001 Proceedings* Spe, 2001-05-07 Conference proceedings from Antec 2001 held on 6 10 May 2001 in Dallas Texas This includes the Volume III topic of Special Areas Color and Appearance Division      **Performance and Application of Novel Biocomposites** Oisik Das, 2021-03-12 Amidst impending climate change and enhanced pollution levels around the globe the need of the hour is to develop bio based materials that are sustainable and possess comparable performance properties to their synthetic counterparts In light of the aforementioned numerous investigations are being conducted to identify process and create materials that are concurrently innocuous towards the environment and have superior properties This book is a collection of such scientific articles that propagate novel ideas for the development of polymeric composite materials which have application potential in numerous fields such as medicine automobile aviation construction etc It also contains a pedagogical article that proposes some strategies to continue experimental research during pandemics This book will provide readers a quick glance into recent developments regarding polymeric materials and will encourage them to propagate these research ideas further      **Scientific Ballooning** COSPAR. Plenary Meeting, 1992 The thirty eight papers presented in this volume comprise a selection of those given at the symposium on Scientific Ballooning The papers have been divided into five sections dealing with balloon design and new balloon materials balloon programmes and long duration flights balloons on other planets instrumentation for balloons and recent scientific observations      *The Next Generation in Scientific Ballooning* W. V. Jones, 2004      *Drexel Polymer Notes*, 1991      **Physics Briefs**, 1994      **Middle and Upper Atmosphere Results** COSPAR. Plenary Meeting, 1992 The papers presented in this volume have been divided into three main chapters Firstly Atmospheric Trace Species which is primarily concerned with the construction of a COSPAR International Reference Atmosphere CIRA Volume 3 for trace constituents of the middle atmosphere and lower thermosphere Possible reference models and data were presented on a number of trace species including background stratospheric aerosols polar stratospheric clouds methane nitrous oxide ozone water vapor thermospheric nitric oxide molecular oxygen airglow emissions atomic oxygen and atomic hydrogen Chapter 2 entitled Equatorial Thermosphere and Aeronomy Models and San Marco Satellite Ground Based observations reflects the advances made recently in equatorial aeronomy and demonstrate the promise of coordinated measurements using satellite measurements in conjunction with sounding rockets and ground based experiments The final chapter Coupling of Dynamical Radiative and Chemical Processes in the Middle Atmosphere examines the ozone hole and related atmospheric chemistry and modelling      *Advanced Polymers Abstracts*, 1996      *34th Aerospace Sciences Meeting & Exhibit*, 1996      **Government Reports Annual Index**, 1992      **The Engineering Index Annual**, 1992 Since its creation in 1884 Engineering Index has

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### **Table of Contents Creep Behavior Of Linear Low Density Polyethylene Films**

1. Understanding the eBook Creep Behavior Of Linear Low Density Polyethylene Films
  - The Rise of Digital Reading Creep Behavior Of Linear Low Density Polyethylene Films
  - Advantages of eBooks Over Traditional Books
2. Identifying Creep Behavior Of Linear Low Density Polyethylene Films
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an eBook Creep Behavior Of Linear Low Density Polyethylene Films
  - User-Friendly Interface
4. Exploring eBook Recommendations from Creep Behavior Of Linear Low Density Polyethylene Films

- Personalized Recommendations
- Creep Behavior Of Linear Low Density Polyethylene Films User Reviews and Ratings
- Creep Behavior Of Linear Low Density Polyethylene Films and Bestseller Lists
- 5. Accessing Creep Behavior Of Linear Low Density Polyethylene Films Free and Paid eBooks
  - Creep Behavior Of Linear Low Density Polyethylene Films Public Domain eBooks
  - Creep Behavior Of Linear Low Density Polyethylene Films eBook Subscription Services
  - Creep Behavior Of Linear Low Density Polyethylene Films Budget-Friendly Options
- 6. Navigating Creep Behavior Of Linear Low Density Polyethylene Films eBook Formats
  - ePub, PDF, MOBI, and More
  - Creep Behavior Of Linear Low Density Polyethylene Films Compatibility with Devices
  - Creep Behavior Of Linear Low Density Polyethylene Films Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Creep Behavior Of Linear Low Density Polyethylene Films
  - Highlighting and Note-Taking Creep Behavior Of Linear Low Density Polyethylene Films
  - Interactive Elements Creep Behavior Of Linear Low Density Polyethylene Films
- 8. Staying Engaged with Creep Behavior Of Linear Low Density Polyethylene Films
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Creep Behavior Of Linear Low Density Polyethylene Films
- 9. Balancing eBooks and Physical Books Creep Behavior Of Linear Low Density Polyethylene Films
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Creep Behavior Of Linear Low Density Polyethylene Films
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Creep Behavior Of Linear Low Density Polyethylene Films
  - Setting Reading Goals Creep Behavior Of Linear Low Density Polyethylene Films
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Creep Behavior Of Linear Low Density Polyethylene Films

- Fact-Checking eBook Content of Creep Behavior Of Linear Low Density Polyethylene Films
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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