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In materials science, creep is the tendency of a solid material to move slowly or deform permanently under the influence of persistent mechanical stresses. It can occur as a result of long-term exposure to high levels of stress that are still below the yield strength of the material. Creep is more severe in materials that are subjected to heat for long periods and generally increases as they near their melting point. The rate of deformation is a function of the material's properties, exposure ti

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Creep (deformation) - Wikipedia

The Creep of biaxially-orientated linear low-density polyethylene (LLDPE) non-crosslinked and crosslinked with γ -irradiation was studied as a function of the draw ratio and irradiation dose.

(PDF) Creep Behavior of Linear Low-Density Polyethylene Films

The Creep of biaxially-orientated linear low-density polyethylene (LLDPE) non-crosslinked and crosslinked with γ -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 Megarad (MR) in comparison with a non-irradiated film.

Creep behavior of linear low-density polyethylene films ...

Journal of Metals, Materials and Minerals. Vol.16 No.1 pp.1-6, 2006 Creep Behavior of Linear Low-Density Polyethylene Films Yakov B. UNIGOVSKI¹, Arthur L. BOBOVITCH^{*,2}, Emmanuel M. GUTMAN¹ ¹ Dept ...

Creep Behavior of Linear Low-Density Polyethylene Films

Adv. Space Res. Vol 13, No. 2, pp. (2)372)40, 1993 0273177/93 \$15.(X) Printed in Great Britain. 1992 COSPAR CREEP BEHAVIOR OF 6 MICROMETER LINEAR LOW DENSITY POLYETHYLENE FILM J. M. Simpson* and W. W. Schur** * National Aeronautics and Space Administration/Goddard Space Flight Center, Wallops Flight Facility, Wallops Island, VA

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23337, U.S.A. ** Physical Science Laboratory, New Mexico State ...

Creep behavior of 6 micrometer linear low density ...

The rheological behavior of two metallocene linear low-density polyethylenes (mLLDPE) is investigated in shear creep recovery measurements using a magnetic bearing torsional creep apparatus of high accuracy. The two mLLDPE used are homogeneous with respect to the comonomer distribution.

Creep recovery behavior of metallocene linear low-density ...

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Creep behavior of 6 micrometer linear low density polyethelene film Simpson, J. M.; Schur, W. W. Abstract. Creep tests were performed to provide material characteristics for a 6.4 μ m polyethelene film used to construct high altitude balloons. Results suggest simple power law relationships are adequate for stresses below about 4.83 MPa.

Creep behavior of 6 micrometer linear low density ...

A common observation is a shift from a power law (usually dislocation) mechanism at ' moderate ' stress to a diffusion mechanism at ' low ' stress, characterized by a linear

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viscous relationship between creep rate and stress [4,5] with a more significant power-law breakdown at ' high ' stress.

The creep behavior of simple structures with a stress ...

linear low density polyethylene (m-LLDPE), a random copolymer of PP with a few mole percent of ethylene and their blends. The aim of this work is to study the creep and stress relaxation behaviors of the m-LLDPE, PP and their blends so as to find whether the m-LLDPE added to the PP has any effect on the relaxation and retardation times. Nutting and

Creep and Stress Relaxation Behavior of Polypropylene ...

While the results of Prasad et al. 122 indicated a stress exponent value close to 1 for pure zirconium at low stress levels (1–3 MPa) revealing the operation of Coble creep, the mechanism of creep at low stresses (0.2–14 MPa) at intermediate temperatures is ascribed by Ruano et al., to grain boundary sliding than to diffusion mechanism. 123

Creep Behavior - an overview | ScienceDirect Topics

Creep and recovery behavior of a linear high density polyethylene and an ethylene hexene copolymer in the region of small uniaxial deformations. ... Nonlinear behavior of linear low density polyethylene, Polymer Engineering & Science, 10.1002/pen.10495, 36, 8, (1058-1064), (2004).

Creep and recovery behavior of a linear high density ...

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where $[D_{sub.0}]$ and $[\Delta]D$ ($[\psi]$) are defined as the components of the linear viscoelastic creep compliance that occur under zero stress conditions and may be considered to be the reference value of the compliance. Symbolically, the total linear viscoelastic compliance is given by: $(3) D$ ($[\psi]$) [equivalent] $[D_{sub.0}] + [\Delta]D$ ($[\psi]$)

Nonlinear behavior of linear low-density polyethylene ...

The parameter of specific creep (ϵ_{sp}) is more suitable for describing the influence of w/b and V_f on the elastic creep behavior of PVA-ECC composites than creep strain (ϵ_c). (3) The w/b ratio significantly increase the specific creep due to the deteriorations of matrix micro structure and transition zones.

Study on the creep behavior of PVA-ECC based on fractional ...

Mechanical properties and creep behavior of rotationally moldable linear low density polyethylene fumed silica nanocomposites V. Girish Chandran Department of Mechanical Engineering, Bits Pilani K K Birla Goa campus, Zuarinagar, Goa, 403726 India

Mechanical properties and creep behavior of rotationally ...

Additionally, the creep behavior of BFRP bars follows the three stages of creep strain similar to glass and aramid FRP bars. Moreover, based on the test results, the fiber content had proved to have a significant effect on the long-term creep behavior of BFRP bars, since the 6 mm diameter of higher fiber content exhibit lower creep strain and higher extrapolated creep rupture stress than 10 mm ...

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Long-term creep behavior of basalt fiber reinforced ...

Viscoelasticity is the property of materials that exhibit both viscous and elastic characteristics when undergoing deformation. Viscous materials, like water, resist shear flow and strain linearly with time when a stress is applied. Elastic materials strain when stretched and immediately return to their original state once the stress is removed.

Viscoelasticity - Wikipedia

Inelastic time-dependent (creep) behavior coupled with the plastic behavior is also available in Abaqus/Standard for the linear form of the model. Creep behavior is not available in Abaqus/Explicit. Modified Drucker-Prager/Cap plasticity and creep

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