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Diffusion into and out of polymers is of huge importance for the HSP community. It affects water absorption of structural polymers, flavour scalping (loss of specific flavour components through a package), the behaviour of coatings on polymers, permeation through protective clothing and

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Diffusion of small molecules through the polymers has significant importance in different scientific and engineering fields such as medicine, textile industry, membrane separations, packaging in food industry, extraction of solvents and of contaminants, and etc. Mass transfer through the polymeric membranes including dense and porous membranes depends on the factors included solubility and diffusivity of the penetrant into the polymer, morphology, fillers, and plasticization.

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Diffusion in Polymer Solids and Solutions
Summary of knowledge about diffusion in high polymers written by a panel of authors, each of whom has made important contributions to developments in the subject. The first chapter introduces the basic techniques of measurement and computation. Subsequent chapters deal with the diffusion of gases and vapor including influence of inhomogeneities ...

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This can lead to loss of adhesive strength, production of cracks, leaching of polymer fragments, corrosion of metallic substrates and rotting of wood. This damage results from the diffusion of water molecules throughout the polymer chains causing plasticization, local strain, chain rupture and chemical degradation 1, 2, 3. Therefore, the knowledge of water permeability in composites and in polymer matrices is recognized to be of utmost importance.

Diffusion of water through various polymer films: a new ...

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MATHEMATICS OF DIFFUSION Diffusion in polymers, (Book, 1968) [WorldCat.org] Diffusion in polymer-diluent systems | SpringerLink "Diffusion in polymers" edited by Page 3/25

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Diffusion coefficients of several solute-polymer systems can be characterized by an exponentially dependent function $D = D_0 \exp(-AC)$. The cumulative mass uptake after a step increase of the solute concentration at the surface was considered using a film with a

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finite thickness and a semi-infinite domain. For finite film the diffusion equation was solved numerically by the Crank–Nicholson method.

Diffusion in Polymers with Concentration Dependent ...

Moisture diffusion in thin polymer films is of special interest to a wide range of industrial sectors, including membrane technologies and packaging materials. Method. Diffusion equations first utilized by Crank and Park are used to compute the diffusion constants for the thin films [1].

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Calculating the Diffusion Constant for
Polymer Films using ...

diffusion in polymers the diffusion of a
vapor or low mw liquid into a polymer matrix
varies widely with the matrix structure
chemical spatial and morphological and the
conditions used it is well known that the
diffusion of the penetrant above the T_g in
an amorphous polymer follows Fick's law Crank
and Park 1968 even in the vicinity of T_g

Diffusion In Polymers Plastics Engineering
Abstract It is possible to modify the

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properties of semicrystalline polymers using diffusion to introduce additional functionality. For example, Vitamin E infused polyethylene has antioxidant prope...

A practical model of the diffusion of oil?based fluid into ...

The transient diffusion of low molecular weight organic solids, liquids, and gases through polymers has been of great interest in materials science and polymer physics.[1-6] Additionally, the diffusion properties of energetic molecules such as 2,4,6-trinitrotoluene (TNT) through food

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wraps, rubber gloves etc. are very important for developing more effective explosive detection systems. Nevertheless, to the best of our knowledge, there have been no studies regarding this increasingly ...

Diffusion Kinetics of TNT in Nitrile Rubber via FTIR-ATR ...

the polymer morphology fillers and plasticization diffusion is the concentration gradient driven process whereby the absorbed molecules are transported within the polymer and diffusion properties are characterised via diffusion coefficients diffusion in

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polymer solids and solutions by mohammad
karimi submitted november 26th 2010

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