

# Diffusion in Polymers

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Polymers can also act as solvents for low molecular weight compounds. The diffusion of small molecular weight components in polymers is important in a number of fields :

- purification of gases by membrane separation
- dialysis
- prevention of moisture loss in food and drugs (packaging)
- controlled drug delivery (transdermal patches, Ocusert)
- polymer degradation

# Diffusion In Polymers

**Plastics and Rubber Institute.  
Polymers Properites Group. Research  
Meeting**

## **Diffusion In Polymers**

*Diffusion in Polymers* P. Neogi, 1996-02-06 Examines various aspects of diffusion in polymers that are being quantitatively described and engineered detailing the phenomenology of diffusion and outlining areas for future research Emphasizing the importance of fundamental studies throughout

*Diffusion in and Through Polymers* Wolf R. Vieth, 1991-01-01 Diffusion of Electrolytes in Polymers Gennadii Efremovich Zaikov, Aleksei Leonidovich Iordanskii, Valerii Sergeevich Markin, 1988-12

Diffusion is the process of transport of a substance in space due to thermal migration of kinetic particles This book firstly determines the general aspects of diffusion in polymers and goes onto to explore characteristics of electrolyte diffusion in different polymers acids water diffusion and chemical reactions

**Diffusion in Polymers**, 1986

Diffusion of Polymers in Polyelectrolyte Gels Anand Rahalkar, 2016 Polyelectrolyte gels have the ability to undergo volume transitions in response to external stimuli As a result they are used in a wide variety of applications such as sensors actuators artificial implants and controlled drug delivery In addition diffusion of trapped macromolecules inside gels is of tremendous significance in drug delivery systems

In this thesis the dynamics of trapped polyelectrolytes in a polyelectrolyte gel is studied using dynamic light scattering technique The effect of the crosslink density and the charge density of the gel as well as of solvent quality and salt concentration are investigated In general two distinct diffusive modes fast and slow are observed in light scattering experiments We have discovered that the fast mode corresponds to the gel elasticity and the slow mode corresponds to diffusion of trapped polymer The deduced diffusion coefficient of the trapped polymer obeys an exponential dependence on the volume fraction of the gel in accordance with the presence of an entropic barrier for polymer diffusion In addition we have monitored the diffusion of a neutral polymer in polyelectrolyte gels using fluorescence correlation spectroscopy We demonstrate that the polymer diffusion is considerably slowed down by the gel due to the coupling between polymer dynamics and gel dynamics

*Sorption and Diffusion in Polymers* Paul Sotta, Agustín Ríos de Anda, 2025-11-10 The use of polymers as barrier materials is one of their widest and most important fields of application e g fuel tanks and hoses water circuits food packaging raincoats and umbrellas electrical insulation drug delivery and their performance also has environmental implications In consequence the problems of sorption and diffusion in polymers are important and ubiquitous in everyday life as well as in a number of high tech applications This book covers the science involved in these topics which are often studied only from an engineering point of view Sorption and Diffusion in Polymers presents the different models generally used to describe sorption and or transport properties and also a new physical model for them It provides an overview of relevant applications related polymer families and the strategies used to control or reduce sorption and diffusion in polymer materials This edited work details the latest research on the topic with chapters written by experts in the field

**Polymer Permeability** J. Comyn, 2012-12-06 Polymers are permeable whilst ceramics glasses and metals are generally impermeable This may seem a disadvantage in that polymeric containers may allow loss or contamination of their contents

and aggressive substances such as water will diffuse into polymeric structures such as adhesive joints or fibre reinforced composites and cause weakening. However in some cases permeability is an advantage and one particular area where this is so is in the use of polymers in drug delivery systems. Also without permeable polymers we would not enjoy the wide range of dyed fabrics used in clothing and furnishing. The fundamental reason for the permeability of polymers is their relatively high level of molecular motion a factor which also leads to their high levels of creep in comparison with ceramics, glasses and metals. The aim of this volume is to examine some timely applied aspects of polymer permeability. In the first chapter basic issues in the mathematics of diffusion are introduced and this is followed by two chapters where the fundamental aspects of diffusion in polymers are presented. The following chapters then each examine some area of applied science where permeability is a key issue. Each chapter is reasonably self contained and intended to be informative without frequent outside reference. This inevitably leads to some repetition but it is hoped that this is not excessive.

**Polymer Properties Group Research Meeting X** Plastics and Rubber Institute. Polymers Properites Group. Research Meeting, 1981\* *Third International Conference on Diffusion in Polymers*, 1991

### **Sorption and Diffusion in Polymers**

Agustin Ríos De Anda, Paul Sotta, 2025-11-14 The use of polymers as barrier materials is one of their widest and most important fields of application e.g. fuel tanks and hoses, water circuits, food packaging, raincoats and umbrellas, electrical insulation, drug delivery and their performance also has environmental implications. In consequence the problems of sorption and diffusion in polymers are important and ubiquitous in everyday life as well as in a number of high tech applications. This book covers the science involved in these topics which are often studied only from an engineering point of view. Sorption and Diffusion in Polymers presents the different models generally used to describe sorption and/or transport properties and also a new physical model for them. It provides an overview of relevant applications related to polymer families and the strategies used to control or reduce sorption and diffusion in polymer materials. This edited work details the latest research on the topic with chapters written by experts in the field.

### **Diffusion in Polymers**

James A. Tshudy, 1974 *Diffusion in polymers, ed*

John Crank, Geoffrey Sheard Park, **Polymer Properties Group Research Meeting X** Plastics and Rubber Institute. Polymer Properties Group, 1981 A Study of Diffusion in Polymers Using C-14 Labelled Molecules H. K. Toh, 1970 A novel method of measuring the self diffusion coefficient of a penetrant molecule in various polymers was devised. This method makes use of a permeation experiment where the radioactively labelled molecule exchange with the chemically identical but nonradioactive molecules through the polymer membrane specimen. The rate of permeation is measured by the excitation of the non radioactive molecules which act as the solvent in a liquid scintillation mixture with subsequent excitation and fluorescence of the dissolved scintillator solutes. By maintaining the concentrations of the radioactive and non radioactive molecules in the vapour phase at the same level a self diffusion coefficient D at one precise penetrant concentration level can be determined. The diffusion coefficients measured were compared to those obtained from conventional sorption desorption

methods and the comparison was discussed in terms of the basic definitions of the different diffusion coefficients The diffusional behaviour in silicone rubber and S B S block copolymer was discussed mainly with reference to the free volume theory and the activated zone theory with particular emphasis on chain mobility Dynamic mechanical studies were also obtained in these polymers and related to the diffusion characteristics through chain mobility and free volume concepts Diffusion in filled systems and the two phase S B S copolymers was discussed with the help of mathematical models derived for analogous electrical conductivity through heterogeneous medium and a certain order of polystyrene domain distribution was indicated in the latter Silica silicone rubber interaction was considered and some conclusions were made

**Diffusion in Polymer Blends** Russell John Composto,1987    **Transport Properties in Polymers** Jiri Stastna,1995-03-01

From the Authors Introduction Diffusion is one of the few manageable nonequilibrium processes during which matter is transported through a system Traditionally diffusion is studied in physical chemistry however the fundamental understanding of diffusion processes is not possible without involving statistical physics Diffusion in disordered systems such as in polymers has sometimes unexpected features the nature of which has not yet been determined Since modern technology involves more and more complex materials which rely on a subtle balance of microscopic effects the understanding of diffusion processes in these materials is of paramount importance from the practical point of view A renewed interest in the basic principles of diffusion is a direct result of new experimental data This was a contributing factor in the preparation of this text In the first chapter the phenomenological thermodynamic basics of diffusion is reviewed and the diffusion equation is derived from the principles of irreversible thermodynamics The basic mathematical apparatus for solving diffusion equations is reviewed in the second chapter The third chapter deals mainly with the vast amount of experimental data dealing with diffusion in polymers A reader interested in particular polymeric systems can use the material as a useful introduction The last chapter contains basic information concerning random walks and their application to the diffusion in disordered systems The theory of random walks is widely used in polymer physics where it is usually combined with statistical mechanics to formulate various models of polymeric systems Finally useful mathematical formulas and references to the original sources of some mathematical methods are provided in the appendices Some physical constants associated with several polymer solvent systems are also presented

**New Trends in Physics and Physical Chemistry of Polymers** Lieng-Huang

Lee,2012-12-06 Between June 6 10 1988 the Third Chemical Congress of North America was held at the Toronto Convention Center At this rare gathering fifteen thousand scientists attended various symposia In one of the symposia Professor Pierre Gilles de Gennes of College de France was honored as the 1988 recipient of the American Chemical Society Polymer Chemistry Award sponsored by Mobil Chemical Corporation For Professor de Gennes this international setting could not be more fitting For years he has been a friend and a lecturer to the world scientific community Thus for this special occasion his friends came to recount many of his achievements or report new research findings mostly derived from his theories or

stimulated by his thoughts In this volume of Proceedings titled New Trends in Physics and Physical Chemistry of Polymers we are glad to present the revised papers for the Symposium and some contributed after the Symposium In addition we intend to include most of the lively discussions that took place during the conference This volume contains a total of thirty six papers divided into six parts primarily according to the nature of the subject matter Adsorption of Colloids and Polymers Adhesion Fractal and Wetting of Polymers Dynamics and Characterization of Polymer Solutions Diffusion and Interdiffusion of Polymers Entanglement and Reptation of Polymer Melts and Networks Phase Transitions and Gel Electrophoresis

**An**

**Experimental and Theoretical Study of Diffusion in Polymer Solutions** John L. Duda, 1976 **Small Molecule**

**Diffusion in Polymer Solutions Above and Below the Glass Transition by Forced Rayleigh Scattering** Theodore

Stuart Frick, 1989 *Thermodynamics and Diffusion in Polymer Solutions Containing Associating Species* Joe Su-Shien Lin, 1980

The book delves into Diffusion In Polymers. Diffusion In Polymers is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Diffusion In Polymers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Diffusion In Polymers
- Chapter 2: Essential Elements of Diffusion In Polymers
- Chapter 3: Diffusion In Polymers in Everyday Life
- Chapter 4: Diffusion In Polymers in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Diffusion In Polymers. This chapter will explore what Diffusion In Polymers is, why Diffusion In Polymers is vital, and how to effectively learn about Diffusion In Polymers.
3. In chapter 2, this book will delve into the foundational concepts of Diffusion In Polymers. The second chapter will elucidate the essential principles that must be understood to grasp Diffusion In Polymers in its entirety.
4. In chapter 3, the author will examine the practical applications of Diffusion In Polymers in daily life. This chapter will showcase real-world examples of how Diffusion In Polymers can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Diffusion In Polymers in specific contexts. This chapter will explore how Diffusion In Polymers is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Diffusion In Polymers. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Diffusion In Polymers.

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