

Permeability Basics

- The extent to which a substance can penetrate a polymer depends on sorption (S) and diffusion (D).
- Sorption: solubility of a permeating species as a function of pressure.

$$C = Sp$$

C =concentration of permeating species (mol/m^3)

S =sorption parameter ($\text{mol/m}^3\text{Pa}$)

P =pressure (Pa)

Molecule	Sorption Parameter (S)
He	5.4
N_2	18.4
O_2	34.3
CO_2	201

For semicrystalline polymers above T_g :

$$S = V_{am}S'$$

V_{am} =amorphous volume fraction

$S' = S$ for 100% amorphous polymer

Polymer Permeability

Xiaolong Qi



Polymer Permeability:

The Enigmatic Realm of **Polymer Permeability**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Polymer Permeability** a literary masterpiece penned by a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

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