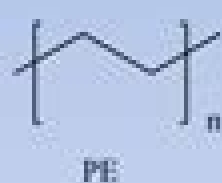


Thermal Degradation

Depending upon the presence of oxygen, temperature and structure of polymer, degradation and/or oxidation reactions will occur.

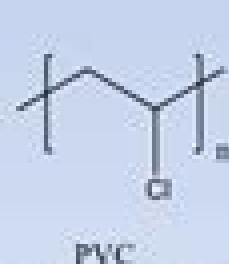
Theoretical point of view most commercial polymer systems should be relatively stable above their melting point in the absence of oxygen.

It is interesting to note that saturated hydrocarbons are much more stable than polyethylene (PE) in the absence of oxygen as are chloroalkanes when compared with PVC.



$$T_{\text{deg PE}} < T_{\text{deg Butadecane}}$$

or



$$T_{\text{deg PVC}} < T_{\text{deg 2,4,6-trichloroheptane}}$$

In some cases this temperature difference may be as high as 200°C. There are mainly two reasons for this difference in behavior;

- The first of which is simply that polymers by virtue of long chain nature are able to breakdown into smaller molecular fragments i.e. monomer formation via unzipping reactions

Elements Of Polymer Degradation

DJ Losen



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Elements of Polymer Degradation Leo Reich, Salvatore S. Stivala, 1971 Elements of Polymer Degradation [by] Leo Reich [and] Salvatore S. Stivala Leo Reich, 1971 **Chemical Physics of Polymer Degradation And Stabilization** N. Nikolai Markovich Emanuel', Anatoliï Leonidovich Buchachenko, 1987-06 **Polymer Degradation** W. Schnabel, 1981-12-31
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Covers recent advances in polymer degradation and stabilization Focuses on the basics of photo and bio degradability
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Surveys plastic waste disposal strategies such as recycling incineration chemical recovery by pyrolysis and source reduction
Plasma Processing of Polymers Ricardo d'Agostino, Pietro Favia, Francesco Fracassi, 1997-11-30 Proceedings of the NATO
Advanced Study Institute on Plasma Treatments and Deposition of Polymers Acquafrredda di Maratea Italy May 19 June 2
1996 **Materials Degradation and Its Control by Surface Engineering** Andrew William Batchelor, 1999
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well as methodologies of thermal analysis and calorimetry Contributions are from both pioneering scientists and the new
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of surface engineering as a means of managing materials degradation Thus the trainee engineer is presented with a
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Catia Bastioli, 2020-03-09 This handbook covers characteristics processability and application areas of biodegradable
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management practices including anaerobic digestion and considers topics such as the different types of biorefineries for renewable monomers used in producing the building blocks for biodegradable polymers *Crosslinking and Scission in*

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Macromolecules Containing Metal and Metal-Like Elements,

Volume 10 Alaa S. Abd-El-Aziz, Charles E. Carraher, Jr., Pierre D. Harvey, Charles U. Pittman, Jr., Martel Zeldin, 2010-06-22

Metal and metalloid containing macromolecules are defined as large molecules i.e. polymers DNA proteins that contain a metal or metalloid group affiliated with the molecule This volume describes what is possible with metal containing polymers where the metal is an essential ingredient in obtaining desired optical and electronic properties Covering applications in nonlinear optical materials solar cells light emitting diodes photovoltaic cells field effect transistors chemosensing devices and biosensing devices this indispensable guide focuses on the photochemistry and photophysics of metal containing polymers with chapters by leading contributors to the core advances in this field Speciality Polymers / Polymer Physics

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depend on structure Solution properties are thus discussed in Part II solid state properties in Part III There are other reasons for discussing properties before synthesis For example it is difficult to understand equilibrium polymerization without knowledge of solution thermodynamics the gel effect without knowledge of the glass transition temperature etc Part IV treats the principles of macromolecular syntheses and reactions

Materials for Sustainable Environmental, Energy, and Bioresource Applications Phuong Nguyen-Tri, 2024-08-08 This proceedings book showcases the latest research and developments in materials sciences and their applications for solving environmental and energy related challenges The book features insightful contributions from leading researchers academics professionals and students in the field who share their expertise experiences and perspectives on the key issues and innovations in materials sciences and engineering The book is helpful to those interested in environmental sustainability energy efficiency or bioresource utilization

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