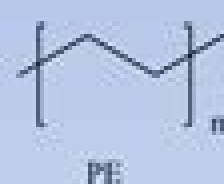


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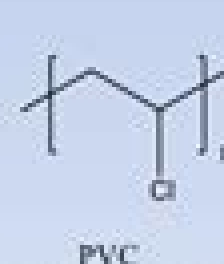
Depending upon the presence of oxygen, temperature and structure of polymer, degradation and/or oxidation reactions will occur.

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.



or



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

**N. Nikolai Markovich Emanuel', Anatoliï
Leonidovich Buchachenko**

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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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holistic view of materials degradation without undue emphasis on aqueous corrosion with the neglect of other important
topics such as liquid metal corrosion Discussion of materials degradation is balanced by detailed description and evaluation
of surface engineering as a means of managing materials degradation Thus the trainee engineer is presented with a
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degradation is not only discussed in scientific terms but the economics or financial aspects of materials degradation and
surface engineering is also discussed in detail with the help of analytical models Handbook of Biodegradable Polymers
Catia Bastioli, 2020-03-09 This handbook covers characteristics processability and application areas of biodegradable
polymers with key polymer family groups discussed It explores the role of biodegradable polymers in different waste

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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

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