

## POLYMER PHOTODEGRADATION%0A

Download PDF Ebook and Read Online Polymer Photodegradation%0A. Get **Polymer Photodegradation%0A Photodegradation and photostabilization of polymers**

Light - induced polymer degradation, or photodegradation, includes the physical and chemical changes caused by irradiation of polymers with ultraviolet or visible light. In order to be effective, light must be absorbed by the substrate (polymeric system). Thus, the existence of chromophoric groups in the macromolecules is a prerequisite for the initiation of any photochemical reaction Schnabel

<http://www.thegraphicdesign.co/Photodegradation-and-photostabilization-of-polymers--.pdf>

### **Photodegradation and photostabilization of polymers**

Photodegradation. Photodegradation is degradation of a photodegradable molecule caused by the absorption of photons, particularly those wavelengths found in sunlight, such as infrared radiation, visible light, and ultraviolet light.

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### **Photodegradation an overview ScienceDirect Topics**

Photodegradation of a polymer is in most cases initiated by chromophores which are extraneous groups on the chains, e.g. formed by oxidation, or impurities which can be metal ions, organometallic compounds, light-absorbing organic compounds or solid particles which absorb light.

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### **5 2 Photodegradation and stabilization of polymers**

138 Primary photodegradation processes 152 d) a) Intramolecular excitation energy transfer (exciton migration along the polymer chain) can produce the scission of a bond rather far

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### **POLYMER MECHANICS CHANGES IN THE MECHANICAL PROPERTIES OF**

POLYMER MECHANICS CHANGES IN THE MECHANICAL PROPERTIES OF POLYCARBONATE PRODUCED BY A POWERFUL LIGHT FLUX N. N. Vsevolodov, G. P. Itinskaya, V. N. Kotrelev, N. P

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### **LIGHT INDUCED PHENOMENA IN POLYMERIC THIN FILMS**

photodegradation is related to the ease of formation of the primary radicals by abstraction of hydrogen from the activated C H bonds (formation of intrachain radicals) or by breaking weakened C C bonds in the backbone (formation of terminal radicals).

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### **Photoassisted Fenton like degradation of aqueous poly**

A mechanistic kinetic model for the photo-Fenton-like degradation of polyacrylic acid (PAA) is developed and validated using experimental data collected by a batch recirculation photoreactor.

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### **Photochemical study of an o ethyl dibenzodioxocin molecule**

The first step of the photodegradation of dibenzodioxocin 1 corresponds to the -O-4 cleavage of the molecule followed by the -O-4 bond scission induced by the benzylic radical as already shown by Scaiano et al. .

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### **PDF Photodegradation of Water Soluble Polymers**

The kinetic models of the photo-oxidative degradation of water-soluble polymers, as the main

component of water-soluble composite films in aqueous solutions, by ultraviolet radiation and hydrogen

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