

PHOTODEGRADATION OF POLYMERS%0A

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Photodegradation and photostabilization of polymers ...
Photodegradation may occur in the absence of oxygen (chain breaking or cross-linking) and the presence of oxygen (photooxidative) degradation. The photooxidative degradation process is induced by UV radiation and other catalysts (or both) and can be accelerated at elevated temperatures.

5.2 Photodegradation and stabilization of polymers

138 Photodegradation of polymers 148 Exposure to sunlight and some artificial lights can have adverse effects on the useful life of plastic products.

Photo-oxidation of polymers - Wikipedia

Photo-oxidation of polymers. Jump to navigation Jump to search. Photo-oxidation is the degradation of a polymer surface in the presence of oxygen or ozone. The effect is facilitated by radiant energy such as UV or artificial light. This process is the most

Photodegradation - Wikipedia

Photodegradation is the alteration of materials by light. Typically, the term refers to the combined action of sunlight and air . Photodegradation is usually oxidation and hydrolysis .

(PDF) Photodegradation and photostabilization of polymers ...

Photodegradation of polystyrene (e.g. embrittlement and color change) can take place upon irradiation with a portion of UV light that is contained within sunlight.

Photodegradation of Polymers | SpringerLink

In this book on physical characteristics and practical aspects of polymer photodegradation Rabek emphasizes the experimental work on the subject. The most important feature of the book is the physical interpretation of polymer degradation, e.g. mechanism of UV/light absorption, formation of excited

Photodegradation - an overview | ScienceDirect Topics

Photodegradation: Photodegradation is a result of the absorption of UV light that leads to molecules in the excited states, which undergo reaction.

7 Photodegradation of Solid Polymers - Springer

7 Photodegradation of Solid Polymers 7.1 Differences Between Photodegradation of Polymers in Solid and Liquid Phases There are several reasons why the photodegradation processes in solid poly

Degradation of Polymers

Degradation of Polymers can be considered as any type of chemical modification of a polymer that involves the chain backbone and/or the side groups. These modifications are caused by rupture of valence bonds, leading to chain

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scission, crosslinking, cyclization, and change in composition.

Polymer Photodegradation: Mechanisms and experimental ...

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4.11. Photodegradation of plastics - Home | Food and ...

4.11. Photodegradation of plastics. Contents - Previous - Next - B. Brenndorfer . The most common use of plastics in solar collectors and dryers is as a transparent cover allowing incident radiation to pass through and impinge on an absorber surface - or on the commodity being dried.

What is Photodegradation? - Definition from Corrosionpedia

Photodegradation is the change, typically undesirable, in the properties of a material. Quite literally, it means the degradation of a material due to photon exposure. Photo degradation is a major concern with some polymers and other materials, where ultraviolet (UV) light causes the polymer to oxidize, thus making them brittle.

Polymer Photodegradation: Mechanisms and experimental ...

In order to improve polymer photostability there has been a very big effort during the last 30 years to understand the mechanisms involved in photodegradation and environmental ageing. This book represents the author's attempt, based on his 25 years' experience in research on photodegradation and photo stabilization, to collect and generalize a number of available data on the photodegradation

Photodegradation - an overview | ScienceDirect Topics

Photodegradation. Photodegradation is a major degradation pathway for several antibiotic groups including the fluoroquinolones and tetracyclines where half-lives may be only a few hours.