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Polymer degradation is the reduction in the physical properties of a polymer, such as strength, caused by changes in its chemical composition. Polymers and particularly plastics are subject to degradation at all stages of their product life cycle, including during their production, use, disposal into the environment and recycling. The rate of this degradation varies significantly.

**Journal of Polymers and the Environment | Home**
Nov 26, 2021 · formerly: `Journal of Environmental Polymer Degradation'
Editorial board; Aims & scope; The Journal of Polymers and the Environment fills the need for an international forum in this
diverse and rapidly expanding field. The journal serves a crucial role for the publication of information from a wide range of disciplines and is a central outlet

**Polymer Degradation - an overview | ScienceDirect**

Polymer degradation is a change in the properties of the polymer, such as tensile strength, color, shape, and molecular weight, or of a polymer-based product under the influence of one or more environmental factors, such as heat, light, chemicals, or any other applied force. Degradation is often due to a change in the chemical and/or physical properties—tensile strength, color, shape, or molecular weight—of a polymer or polymer-based product under the influence of one or more environmental factors, such as heat, light, and the presence of certain chemicals, oxygen, and enzymes.

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**Polyacrylamide degradation and its implications in**
Sep 07, 2018 · Chemical degradation of PAM that leads to chain scission involves activation of the polymer by
free radicals, 42,62,63,64,65,66 most commonly hydroxyl radicals generated in the environment from

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Photodegradation and photostabilization of polymers
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ACS Omega
Waste Couture: Environmental Impact of the Clothing
Sep 01, 2007 · Everything Old Is New Again. In her book Waste and Want: A Social History of Trash, Susan Strasser, a professor of history at the University of Delaware, traces the “progressive obsolescence” of clothing and other consumer goods to the 1920s. Before then, and especially during World War I, most clothing was repaired, mended, or tailored to fit other family members, or recycled ...