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Environmental degradation of polymeric materials can occur by physical, chemical, and biological processes or a combination of them, under the effect of several factors such as temperature (thermal degradation), air (oxidative degradation), moisture (hydrolytic degradation), microorganisms (biodegradation), light (photo degradation), high-energy radiation (UV,  $\gamma$  irradiation), chemical agents (corrosion), mechanical

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stress . These factors lead to irreversible changes in the material, which ...

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Abstract With the increased use of graphite-reinforced composites as replacements for metals has come concerns about durability under harsh environmental conditions. Degradation is expected to begi...

Environmental degradation of an epoxy resin matrix - Luoma - 1986 - Journal of Applied Polymer Science - Wiley Online Library.

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The environmental degradation mechanisms for plastics can be classified as either (i) physical, referring to changes in the bulk structure, such as cracking, embrittlement, and flaking, or (ii) chemical,

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referring to changes at the molecular level such as bond cleavage or oxidation of long polymer chains to create new molecules, usually with ...

Degradation Rates of Plastics in the Environment | ACS ...

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Synthetic plastics, which are widely present in

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materials of everyday use, are ubiquitous and slowly-degrading polymers in environmental wastes. Of special interest are the capabilities of microorganisms to accelerate their degradation. Members of the metabolically diverse genus *Pseudomonas* are of particular interest due to their capabilities to degrade and metabolize synthetic plastics.

Degradation and metabolism of synthetic plastics and ...

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This experimental investigation reports on the

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durability of epoxy-clay nanocomposites upon exposure to multiple environments. Nanocomposites are fabricated by mixing the clay particles using various combinations of mechanical mixing, high-shear dispersion, and ultrasonication. Clay morphology is characterized using X-ray diffraction and transmission electron microscopy.

Environmental Degradation and Durability of Epoxy-Clay ...

Polymer degradation is a change in the properties—tensile strength, color, shape, etc.—of a polymer or polymer-based product under the influence of one or more environmental factors such as heat, light or



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chemicals such as acids, alkalis and some salts.

Polymer degradation - Wikipedia

Nadarajah Vasanthan, Hande Gezer, Thermally induced crystallization and enzymatic degradation studies of poly (L-lactic acid) films, Journal of Applied Polymer Science, 10.1002/app.38015, 127, 6, (4395-4401), (2012).

Antioxidant control of polymer biodegradation - Scott

...

After degradation, holes in the PCL films exposed to pH 0 were observed, and the loss of the carbonyl stretch was monitored at 1723  $\text{cm}^{-1}$ . As particle size

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decreased, polymer degradation increased, indicating an increase in aerosol acidity at smaller particle diameters.

Aerosol Acidity Sensing via Polymer Degradation ...  
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