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Not all compostable plastics are created equal

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"Green Plastics introduces the new generation of biodegradable plastics--bioplastics--whose components are derived mostly from renewable raw materials. For anyone interested in an introduction to 'green plastics,' this is the entrance key."--Ann-Christine Albertsson, Royal Institute of Technology, Stockholm, and editor, Biomacromolecules

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Green Plastics | Princeton University Press

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The most promising way of making plastics from other abundant renewable sources like corn, soy beans, sugarcane etc. is the avenue of Bio plastics. This paper is a comparative study that confers the likelihood of the conventional petro-plastics being substituted by the new-age degradable and renewable bio-derived polymers.

Stevens, E. S. (2002). *Green plastics: an introduction to ...*

Bioplastics is a concise—and suitable—name for biodegradable plastics whose components are derived entirely or almost entirely from renewable raw materials. A bioplastic contains one or more biopolymeric substances as an essential ingredient. They are indeed plastics, but very special plastics.

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Introduction to Biodegradable Plastics Biodegradable plastics, also known as green materials, can be metabolized and decomposed by microorganisms to produce water and carbon dioxide or methane in a natural burial or composting environment with sufficient humidity, oxygen, and appropriate microorganisms, which is less harmful to the environment.

Introduction to Biodegradable Plastics - □□□□□□□□□□

It all started in 2001, when Eugene S. Stevens, Professor of Chemistry at the State University of New York at Binghamton, published the book *Green Plastics: An Introduction to the New Science of Biodegradable Plastics* as an introduction for students and entrepreneurs interested in learning more about the science and application of biodegradable plastics made from renewable resources. This book came onto the market as a popular press (non-academic) book just as the “buzz” over ...

About - Green Plastics: the new science of bioplastic

Biodegradable plastics decompose through the action of living organisms, usually bacteria. There are two types of biodegradable plastics: bioplastics, plastics that are derived from renewable raw materials such as poly-3-hydroxybutyrate (PHB) and polyhydroxyvalerate (PHV) and plastics that contain biodegradable additives.

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An Introduction to Biodegradable Plastics - Intro to ...

Products made of biodegradable plastics must be stable during processing. Most of the green plastic materials are processed by methods such as thermoforming, injection molding, blow molding and extrusion. These processes demand mechanical and physical properties such as melt strength, flow, elongation, temperature resistance, elasticity.

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Green Plastics: An Introduction to the New Science of Biodegradable Plastics, by E. S. Stevens. Princeton, NJ: Princeton University Press, 2002, 238 pp., ISBN 069104967X, \$35.00. This book brings a topical issue—green plastics—to a wide audience, among them chemistry students, specialists in related fields, policy mak-

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