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Bio-based Plastics is a valuable resource for academic and industrial researchers who are interested in new materials, renewable resources, sustainability and polymerization technology. It will also prove useful for advanced students

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interested in the development of bio-based products and materials, green and sustainable chemistry, polymer chemistry and materials science.

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Bio-based Plastics presents an up-to-date overview of the basic and applied aspects of bioplastics, focusing primarily on

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thermoplastic polymers
for material use.

Emphasizing materials currently in use or with significant potential for future applications, this book looks at the most important biopolymer classes such as polysaccharides, lignin, proteins and polyhydroxyalkanoates as raw materials for bio-based plastics, as well as materials derived from bio-based monomers like lipids,

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Bio-Based Plastics | Wiley Online Books

An important distinction exists between biobased plastics and bioplastics. European Bioplastics defines

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“bioplastics” as a plastic material that is either biobased or biodegradable or both. On the other hand, “biobased plastics” are plastics manufactured from renewable biomass, such as vegetable oil, cornstarch, pea starch, and microbiota.

Biobased Plastics and the Sustainability Puzzle - Food ...

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Bio-based plastics are made in whole or partially from renewable biological resources. For example, sugar cane is processed to produce ethylene, which can then be used to manufacture for example polyethylene. Starch can be processed to produce lactic acid and subsequently polylactic acid (PLA).

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Based on information currently available on the properties of biobased packaging materials the study identified products in the fresh meat, dairy, ready meal, beverage, fruit and vegetable, snack,...

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Bio-based Plastics presents an up-to-date overview of the basic and applied aspects of bioplastics, focusing primarily on thermoplastic polymers for material use.

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Bioplastic simply refers to plastic made from plant or other biological material

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instead of petroleum. It is also often called bio-based plastic. It can either be made by extracting sugar from plants like corn and sugarcane to convert into polylactic acids (PLAs), or it can be made from polyhydroxyalkanoates (PHAs)...

Bioplastics—are they truly better for the environment?

A bioplastic is a plastic

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that is made partly or wholly from polymers derived from biological sources such as sugarcane, potato starch or the cellulose from trees & straws. Some bioplastics degrade in the open air, others are made so that they compost in an industrial composting plant, aided by fungi, bacteria and enzymes.

What are
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Materials And Applications **Bioplastics? - PLA, Starch, PHA, Biodegradability ...**

Bio-based materials are produced primarily by two different ways: (1) the direct production of polymers and (2) the production of bio-based monomers and their further polymerization. More recently, lactic acid has been used in the synthesis of PLA as a new biodegradable and bio-based polymer.

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Bio-Based Material - an overview | ScienceDirect Topics

Bioplastics are plastics that either: originate from a renewable resource, are biodegradable, or are both. As new applications and technologies are developed, bioplastics represent an evolution within the plastics marketplace.

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Bioplastics | Plastics Industry Association

Bio-based plastics such as “BioPE” or “BioPET” are chemically identical to their fossil based versions “PE” and “PET”. That’s why they are called drop-ins. Therefore they can be perfectly integrated in established recycling streams. “BioPET” is for instance used for drinking bottles.

How to dispose of

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bio-based plastics? -

AllThings.Bio

Bioplastics are plastic materials produced from renewable biomass sources, such as vegetable fats and oils, corn starch, straw, woodchips, sawdust, recycled food waste, etc. Bioplastic can be made from agricultural by-products and also from used plastic bottles and other containers using microorganisms.

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Bioplastic - Applications Wikipedia

Biobased or partially biobased non-biodegradable plastics such as biobased PE, PP, or PET (so-called drop-ins) and biobased technical performance polymers such as PTT or TPC-ET; Plastics that are both biobased and biodegradable, such as PLA and PHA or PBS; Plastics that are based on fossil resources and

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are biodegradable,
such as PBAT.

Materials - European Bioplastics e.V.

The non-renewable energy use (NREU) for bio-based materials with 1.1–92 MJ/kg material shows mostly lower values than 55.5–155.9 MJ/kg material for conventional plastics. While all LCA studies on conventional plastics indicate values

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for the NREU, this is only for six out of ten bio-based plastic studies the case.

Bio-based plastics - A review of environmental, social and ...

However, many products labeled as bio-based are actually of fossil origin and for this reason, it is paramount to have a method in place for the regulation of these materials. This

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is where isotopic analysis techniques come in. Isotopes are atoms of the same element (same number of protons) but with a different number of neutrons.

Bio-Based Materials Regulation in Developing Countries ...

Biobased or partially biobased durable plastics, such as biobased or partially

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biobased PE, PET or PVC, possess properties, which are identical to their conventional versions. These bioplastics are technically equivalent to their fossil counterparts; yet, they help to reduce a product's carbon footprint.

**Biobased plastics -
Biobased - European
Bioplastics e.V.**

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Bio-based alternatives
Within the realm of
material development,
companies have
worked to create
plastics with unique
functional and
compositional
attributes. One family
of polymers that
continues to rapidly
grow in popularity is

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