Biodegradable polymers have undergone extensive investigation since the 1970s. They can be either natural or synthetic and can be derived from either renewable or nonrenewable resources.

**Biodegradable plastic - Wikipedia**

Poly(3-hydroxybutyrate-co-3-hydroxyvalerate), commonly known as PHBV, is a polyhydroxyalkanoate-type polymer. It is biodegradable, nontoxic, biocompatible plastic produced naturally by bacteria and a good alternative for many non-biodegradable synthetic polymers. It is a thermoplastic linear aliphatic polyester. It is obtained by the copolymerization of 3-hydroxybutanoic acid and 3-hydroxyvaleric acid. It is a semicrystalline material that can be produced with a wide range of properties, including high impact strength, high stiffness, and good thermal stability.

**Microplastic: What Are the Solutions? | SpringerLink**

“A compilation of all of the statistically-based, scientific studies of litter in the U.S. and Canada over an 18 year period shows consistently that “plastic bags” (which includes trash bags, grocery bags, retail bags and dry cleaning bags) make up a very small portion of litter, usually less than 1%.”

**Plastic & The Environment - Phantom Plastics**

Flexible, sticky, and biodegradable wireless device for ... Piperine—The Bioactive Compound of Black Pepper: From ... Unique acrylic resins with aromatic side chains by ... Biodegradable Polymer - an overview | ScienceDirect Topics

**Biodegradable polymers as biomaterials - ScienceDirect**

Biodegradable plastics are plastics that can be decomposed by the action of living organisms, usually microorganisms, into water, carbon dioxide, and biomass. Biodegradable plastics are commonly produced with renewable raw materials, micro-organisms, petrochemicals, or combinations of all. While the words “bioplastic” and “biodegradable plastic” are similar, they are not synonymous.

**Biodegradable polymers as biomaterials - ScienceDirect**

The Green Dot Bioplastics team works closely with clients to develop customized materials capable of performing specialized functions. In fact, the Terratek SC line can be customized to accommodate a wide variety of physical properties (e.g., impact strength or flex modulus) and processing parameters (e.g., melt flow or melt strength).
A Review on Pineapple Leaves Fibre and Its Composites
Use our one-stop-solution knowledge base, bundling all digital content from European Coatings and find exactly the information you need for your daily work.

The utility of starch-based plastics - Green Dot Bioplastics
Implantation of biodegradable wafers near the brain surgery site to deliver anti-cancer agents which target residual tumor cells by bypassing the blood-brain barrier has been a promising method ...

Plastics, the environment and human health: current ... Global Distribution of Microplastics. The global distribution of plastics is a result of the fragmentation and transportation by wind and currents to the aquatic environment, from inland lakes and rivers to the open ocean and likely deposition to coastlines or the seafloor [. New studies are showing increasing abundances of microplastic upstream, showing that microplastic formation is not ...

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