

Biodegradable **polyester** is a type of polymer that can be broken down by natural biological processes into simpler compounds, such as water, carbon dioxide, and biomass. Biodegradable polyesters are designed to degrade faster than conventional plastics, which are non-biodegradable and can persist in the environment for hundreds of years. Biodegradable polyesters are made from renewable resources, such as plant starch or microbial fermentation, and can be used to create a variety of products, including packaging materials, textiles, and medical devices. Some common types of biodegradable polyesters include polylactic acid (PLA), polyhydroxyalkanoates (PHAs), and polycaprolactone (PCL). The use of biodegradable polyesters is seen as a promising strategy for reducing the environmental impact of plastic waste and promoting sustainability.

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