

# Download Synthetic Biodegradable Polymers

Synthetic polymers are human-made polymers. From the utility point of view they can be classified into four main categories: thermoplastics, elastomers and synthetic fibers.<sup>6</sup> A common misunderstanding is that all biodegradable polymers are made from renewable resources. The manufacturing of biodegradable polymers can include different procedures. Biodegradable polymers are a special class of polymer that breaks down after its intended purpose by bacterial decomposition process to result in natural byproducts such as gases ( $\text{CO}_2$ ,  $\text{N}_2$ ), water, biomass, and inorganic salts. Biodegradable polymers contain polymer chains that are hydrolytically or enzymatically cleaved, resulting in soluble degradation products. Biodegradability is particularly desired in biomedical applications, in which degradation of the polymer ensures clearance from the body and eliminates the need for retrieval or explant., Synthetic Biodegradable Polymers.

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