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background, it will enable the engineer to design polymer components. Materials Science of Polymers for Engineers is based on the German textbook, Werk stoffkunde Kunststoffe (G. Menges, Hanser Publishers, 1989), and on lecture notes from polymer materials science courses taught at the Technical

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A polymer (the name means "many parts") is long chain molecule made up many repeating units, called monomers. Polymers can be natural (organic) or synthetic. They are everywhere: in plastics (bottles, toys, vinyl siding, packaging), cosmetics,

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shampoos and other hair care products, contact lenses, nature (crab shells, amber), food (proteins, starches, gelatin, gum, gluten), fabric, balls, sneakers, and even in your DNA!

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Polymers are materials made of long, repeating chains of molecules. The materials have unique properties, depending on the type of molecules being

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bonded and how they are bonded. Some polymers bend...

## **What Is a Polymer? | Live Science**

Polymers, including natural proteins (such as DNA) and artificial materials (such as nylon and polyester), are examples of macromolecules.

materials scientist  
Someone who studies the ways in which the atomic and molecular

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structure of a material relates to its overall properties. Materials scientists can design new materials or analyze existing ones.

## **Explainer: What are polymers? | Science News for Students**

Polymers are usually made of petroleum, but not always. Many polymers are made of repeat units derived from natural gas or coal or crude oil. But

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building block repeat units can sometimes be made from renewable materials such as polylactic acid from corn or cellulose from cotton linters.

## **The Basics: Polymer Definition and Properties**

The Materials Science Suite provides chemical structure and polymer builders, a chemically adaptable cross-linking simulation



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absence of ladder  
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challenge in materials  
science. While data-  
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approaches are

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promising, success with polymers has been limited, largely due to limitations in data availability. Here, we demonstrate the targeted sequence design of single-chain structure in polymers by combining coarse-grained ...

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