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basic material  
properties, molecular  
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material properties, molecular structure, and thermal properties of polymers. - Influence of Processing on Properties - tying processing and design by discussing rheology of polymer melts, mixing and processing, the development of anisotropy, and solidification processes.

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## **Materials Science of Polymers for Engineers**

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

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science courses taught  
at the Technical  
University of

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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,

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toys, vinyl siding, packaging), cosmetics, 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

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on the type of molecules being 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

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the ways in which the atomic and molecular 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

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from natural gas or coal or crude oil. But 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



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chemically adaptable cross-linking simulation module (Crosslink Polymers), automated thermophysical and mechanical response simulation modules (e.g. Thermophysical Properties, and Stress Strain), and analysis tools (e.g. MS MD Trajectory Analysis) allowing users to efficiently analyze single or multiple systems.

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The research on advanced functional polymers is being driven by the fast-growing demand for new functional materials that can be used in revolutionary technologies. Polymers can be endowed with functions by using certain special preparation methods or by introducing functional groups or

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fillers into materials.

**Advanced functional  
polymer materials -  
Materials ...**

Membrane materials can avoid phase changes in such mixtures and thereby reduce the energy intensity of these thermal separations. With this application in mind, we created spirocyclic polymers with N -aryl bonds that demonstrated

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noninterconnected  
microporosity in the  
absence of ladder  
linkages.

**N -Aryl-linked  
spirocyclic polymers  
for ... - Science**

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The chemical design of  
polymers with target  
structural and/or  
functional properties  
represents a grand  
challenge in materials  
science. While data-

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driven design approaches are 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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