

Polymer

Appearance of real linear polymer chains as recorded using an [atomic force microscope](#) on surface under liquid medium. Chain [contour length](#) for this polymer is ~204 nm; thickness is ~0.4 nm.

A **polymer** is a large [molecule](#) ([macromolecule](#)) composed of repeating [structural units](#). These subunits are typically connected by [covalent chemical bonds](#). Although the term *polymer* is sometimes taken to refer to [plastics](#), it actually encompasses a large class of natural and synthetic materials with a wide variety of properties.

Because of the extraordinary range of properties of polymeric materials, they play an essential and ubiquitous role in everyday life. This role ranges from familiar synthetic plastics and [elastomers](#) to natural [biopolymers](#) such as [nucleic acids](#) and [proteins](#) that are essential for life.

[Natural polymeric materials](#) such as [shellac](#), [amber](#), and natural [rubber](#) have been used for centuries. A variety of other natural polymers exist, such as [cellulose](#), which is the main constituent of wood and paper. The [list of synthetic polymers](#) includes [synthetic rubber](#), [Bakelite](#), [neoprene](#), [nylon](#), [PVC](#), [polystyrene](#), [polyethylene](#), [polypropylene](#), [polyacrylonitrile](#), [PVB](#), [silicone](#), and many more.

Most commonly, the continuously linked backbone of a polymer used for the preparation of plastics consists mainly of [carbon](#) atoms. A simple example is polyethylene, whose repeating unit is based on [ethylene monomer](#). However, other structures do exist; for example, elements such as [silicon](#) form familiar materials such as silicones, examples being [silly putty](#) and waterproof plumbing sealant. Oxygen is also commonly present in polymer backbones, such as those of [polyethylene glycol](#), [polysaccharides](#) (in [glycosidic bonds](#)), and [DNA](#) (in [phosphodiester bonds](#)).

Polymers are studied in the fields of [polymer chemistry](#), [polymer physics](#), and [polymer science](#).

Overview

While the term *polymer* in popular usage suggests "[plastic](#)", polymers comprise a large class of natural and synthetic materials with a variety of properties and purposes. Natural polymer materials such as [shellac](#) and [amber](#) have been in use for centuries. Paper is manufactured from [cellulose](#), a naturally occurring [polysaccharide](#) found in plants. Biopolymers such as [proteins](#) and [nucleic acids](#) play important roles in biological processes.

Project On Polymers For Class 12

Lei Shi



Project On Polymers For Class 12:

Summaries of Projects Completed in Fiscal Year ... , **Summaries of Projects Completed** National Science Foundation (U.S.), *Directory of On-going Research in Smoking and Health* ,1974 The Directory contains research resumes from the U S and other countries US Air Force Research Technology Area Plan ,1991 **New Polymer Composite Materials III** Svetlana Khashirova,Azamat A. Zhansitov,Amina Vindizheva,2021-09-08 Selected peer reviewed full text papers from the XVII International Scientific and Practical Conference New Polymer Composite Materials NPCM 2021 Selected peer reviewed papers from the XVII International Scientific and Practical Conference New Polymer Composite Materials NPCM 2021 July 5 10 2021 Nalchik Russian Federation **Plastics & Polymers** ,1972 Vols 2 include the 1st annual report of the council to members of the institute for 1931 32 **Polymers, Ceramics, Composites Alert** ,1992 **Chemical Week** ,1997 **New Scientist** ,1969 *Inventory of Water Resources Research in Australia* ,1977 *Air Force Research Resumés* ,1968 **Prentice Hall Science Explorer** Michael J. Padilla,2002 **Polymer Science** ,2001 **Government Reports Announcements & Index** ,1988 Ben Franklin Technology Center of Central and Northern Pennsylvania, Inc Ben Franklin Technology Center of Central and Northern Pennsylvania,1997 Advanced Materials & Processes ,1997 **Government Reports Announcements & Index** ,1994 Chemical Engineering Progress ,1994 **The Chemist** ,1973 **The Chemical Engineer** ,1999

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