

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](#), [PVR](#), [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

Michael J. Padilla



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