

Rubbery Materials And Their Compounds

Silicone rubber stretched and wrapped around cables, electrical joints, hoses, and pipes it bonds into a strong seamless rubbery electrically insulating and waterproof Silicone rubber is an elastomer composed of silicone—itself a polymer—containing silicon together with carbon, hydrogen, and oxygen. Silicone rubbers are widely used in industry, and there are multiple formulations. Silicone rubbers are often one- or two-part polymers, and may contain fillers to improve properties or reduce cost

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Silicone rubber is generally non-reactive, stable, and resistant to extreme environments and temperatures from -55 to $300\text{ }^{\circ}\text{C}$ (-70 to $570\text{ }^{\circ}\text{F}$) while still maintaining its useful properties. Due to these properties and its ease of

manufacturing and shaping, silicone rubber can be found in a wide variety of products, including voltage line insulators; automotive applications; cooking, baking, and food storage products; apparel such as undergarments, sportswear, and footwear...
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Natural rubber Rubbery Materials and their Compounds. ISBN 978-1-85166-215-9. A. Hobhouse Rubber, also called India rubber, latex, Amazonian rubber, caucho, or caoutchouc, as initially produced, consists of polymers of the organic compound isoprene, with minor impurities of other organic compounds. Brydson, J. (1999 Granta edition). (1988). Springer Netherlands. ISBN 978-1-86207-290-9
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Dental material fabricated materials, designed for use in dentistry. There are many different types of dental products, and their characteristics vary according to their intended Dental products are specially fabricated materials, designed for use in dentistry. There are many different types of dental products, and their characteristics vary according to their intended purpose
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Types of polyisoprene that are used as natural rubbers are classified as elastomers. Currently, rubber is harvested mainly in the form of the latex from the Pará rubber tree (*Hevea brasiliensis*) or others. The latex is a sticky, milky and white colloid drawn off by making incisions in the bark and collecting the fluid in vessels in a process called "tapping". Manufacturers refine this latex into the rubber that is ready for commercial processing. 2794e2358b

Polyvinyl acetate a widely available adhesive used for porous materials like wood, paper, and cloth. It is a type of thermoplastic. An aliphatic rubbery synthetic polymer with the formula $(C_4H_6O_2)_n$ Polyvinyl acetate (PVA, PVAc, poly(ethenyl ethanoate)), commonly known as wood glue (a term that may also refer to other types of glues), PVA glue, white glue, carpenter's glue, school glue, or Elmer's Glue in the US, is a widely available adhesive used for porous materials like wood, paper, and cloth. An aliphatic rubbery synthetic polymer with the formula $(C_4H_6O_2)_n$, it belongs to the polyvinyl ester family, with the general formula $-[RCOOCHCH_2]-$ 2794e2358b

Natural rubber is used extensively in many applications and products, either alone or in combination with other materials. In most of its useful... 2794e2358b The starting material for making thermosets is usually malleable or liquid prior to curing, and is often designed to be molded into the final shape. It may also be used as an adhesive. Once hardened, a thermoset... 2794e2358b

Polysilane Polysilanes are organosilicon compounds with the formula $(R_2Si)_n$. They are relatives of traditional organic polymers but their backbones are composed of silicon Polysilanes are organosilicon compounds with the formula $(R_2Si)_n$. The simplest polysilane would be $(SiH_2)_n$, which is mainly of theoretical, not practical interest. They exhibit distinctive optical and electrical properties. They are mainly used as precursors to silicon carbide. They are relatives of traditional organic polymers but their backbones are composed of silicon atoms 2794e2358b

Styrene-butadiene The styrene/butadiene ratio influences the properties of the polymer: with high styrene content, the rubbers are harder and less rubbery. These materials have good abrasion resistance

and good aging stability when protected by additives. of the polymer: with high styrene content, the rubbers are harder and less rubbery. In 2012, more than 5. SBR is not to be confused with the thermoplastic elastomer, styrene-butadiene Styrene-butadiene or styrene-butadiene rubber (SBR) describe families of synthetic rubbers derived from styrene and butadiene (the version developed by Goodyear is called Neolite). About 50% of car tires are made from various types of SBR. SBR is not to be confused with the thermoplastic elastomer, styrene-butadiene block copolymer, although being derived from the same monomers. 4 million tonnes of SBR were processed worldwide 2794e2358b

Thermosetting polymer Heat is not necessarily applied externally, and is often generated by the reaction of the resin with a curing agent (catalyst, hardener). sheet molding compounds and bulk molding compounds; filament winding; wet lay-up lamination; repair compounds and protective coatings. Curing results in chemical reactions that create extensive cross-linking between polymer chains to produce an infusible and insoluble polymer network. Polyurethanes: insulating In

materials science, a thermosetting polymer, often called a thermoset, is a polymer that is obtained by irreversibly hardening ("curing") a soft solid or viscous liquid prepolymer (resin). Curing is induced by heat or suitable radiation and may be promoted by high pressure or mixing with a catalyst 2794e2358b

In general if two compounds are isostructural then a solid solution will exist between the end members (also known as parents). For example sodium chloride and potassium chloride have the same cubic crystal structure so it is possible to make a pure compound with... 2794e2358b

Oakmoss The texture of the thalli is rough when dry and rubbery when wet. They are also highly branched, resembling the form of antlers. The thalli of oakmoss are short (3–4 cm in length) and bushy, and grow together on bark to form large clumps. and usually exported to the Grasse region of France where its fragrant compounds are extracted as oakmoss absolutes and extracts. It can be found in many mountainous temperate forests throughout the Northern Hemisphere. It is used extensively in modern perfumery. Oakmoss

thallus is flat and strap-like. The colour of oakmoss ranges from green to a greenish-white when dry, and dark olive-green to yellow-green when wet. Oakmoss grows primarily on the trunk and branches of oak trees, but is also commonly found on the bark of other deciduous trees and conifers such as fir and pine. These raw materials Oakmoss (scientific name *Evernia prunastri*) is a species of lichen
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Flubber (material) Glorp, Glurch, or Slime is a rubbery polymer formed by cross-linking of polyvinyl alcohol (PVA) with a borate compound. Slime can be made by combining Flubber (named from the film *The Absent-Minded Professor*), Glorp, Glurch, or Slime is a rubbery polymer formed by cross-linking of polyvinyl alcohol (PVA) with a borate compound. Slime can be made by combining polyvinyl-acetate-based adhesives with borax 2794e2358b

Solid solution Two terms are mainly associated with solid solutions – solvents and solutes, depending on the relative abundance of the atomic species. Many examples can be found in metallurgy, geology, and solid-state chemistry A solid

solution, a term popularly used for metals, is a homogeneous mixture of two compounds in solid state and having a single crystal structure. Many examples can be found in metallurgy, geology, and solid-state chemistry. mixture of two compounds in solid state and having a single crystal structure. The word "solution" is used to describe the intimate mixing of components at the atomic level and distinguishes these homogeneous materials from physical mixtures of components

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