

Addition And Condensation Polymerization Processes

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Addition And Condensation Polymerization Processes

Addition polymerization is the process of repeated addition of monomers that possess double or triple bonds to form polymers. Condensation polymerization is a process that involves repeated condensation reactions between two different bi-functional or tri-functional monomers.

Difference Between Addition And Condensation Polymerization

In commercial addition and condensation polymerization processes reactor design is an important factor for the quality and economics of the polymer.

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In addition polymerization, Lewis bases or acids, or Radical initiators act as catalyst, whereas condensation polymerisation, mineral bases or acids act as a catalyst.

Difference Between Addition Polymerisation and ...

Addition and condensation polymerization are the two major processes of producing a polymer compound. There are many differences between the two processes. The difference between addition and condensation polymerization is that for addition polymerization, monomer should be an unsaturated molecule whereas for condensation polymerization, monomers are saturated molecules. Reference: 1. "Addition Polymer."

Difference Between Addition Polymerization and ...

Both additional and condensation polymerization are two major processes of producing a polymer compound. Both additional and condensation polymerization are catalyzed reactions. Both are endothermic reactions. The reaction require heat from an external source.

12 Difference Between Additional And Condensation ...

In addition polymerization, two or more molecules of monomers attach together to form a polymer. It is a chain reaction and no byproduct is release. Condensation polymerization on the other hand is a process in which the reaction takes place with a release of a byproduct like water, alcohol, etc. Let's study the latter polymerization in detail.

Condensation Polymerization - Science Struck

In contrast, condensation polymerisation produces condensation polymers through the intermolecular condensation of two different monomers with the formation of small molecules such as HCl, water, ammonia, etc., as by-products. This is the main difference between addition polymerisation and condensation polymerisation.

Difference Between Addition Polymerisation and ...

Nylon and Other Polyamides. Condensation polymerization (also known as step-growth) requires that the monomers possess two

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or more kinds of functional groups that are able to react with each other in such a way that parts of these groups combine to form a small molecule (often H_2O) which is eliminated from the two pieces. The now-empty bonding positions on the two monomers can then join ...

10.5: Condensation Polymers - Chemistry LibreTexts

Addition Polymerization Process Like the name "Addition" in this process, the polymers are formed when the corresponding monomers are added to each other. The structure of the polymer, i.e. if the polymer would branch or develop a long chain would depend upon three things, the catalyst used, the reaction conditions and the monomers used.

Classification of Polymerization Reaction -CoolGyan.Org

1. Addition polymerization: This is the type of polymerization in which the molecules of a similar monomer or different monomer add up together on a large scale to form a polymer. When we keep adding monomers to obtain a large chain, such a process is also called as the chain growth polymerization.

Classification of Polymerization Reaction - Addition and

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In polymer chemistry, polymerization (American English, or polymerisation (British English), is a process of reacting monomer molecules together in a chemical reaction to form polymer chains or three-dimensional networks. There are many forms of polymerization and different systems exist to categorize them.

Polymerization - Wikipedia

The two major types of polymerization are addition polymerization and condensation polymerization. In addition polymerization, electrons from a double-bond are used to form bonds between other ...

What is Polymerization? - Definition, Types & Examples ...

Two classes of polymerization usually are distinguished. In condensation polymerization, each step of the process is accompanied by the formation of a molecule of some simple

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compound, often water. In addition polymerization, monomers react to form a polymer without the formation of by-products.

polymerization | Definition, Classes, & Examples | Britannica

The monomers that are involved in condensation polymerization are not the same as those in addition polymerization. The monomers for condensation polymerization have two main characteristics: . Instead of double bonds, these monomers have functional groups (like alcohol, amine, or carboxylic acid groups).

Condensation Polymerization - Materials World Modules

In condensation polymerization, there is no termination step. The end groups remain reactive through the entire process. Addition polymerization results in homo-chain polymers whereas condensation polymerization results in hetro-chain polymers. The most significant difference is that in addition polymers there is no loss of atom.

Types of Polymerization: Condensation vs. Addition, Videos ...

describe the formation of polymer by addition and condensation polymerization; ...

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In addition polymerisation, the monomers must have a C=C double bond. However, in condensation polymerisation, the monomers do not need a C=C double bond but they do need two functional groups....

Condensation polymerisation - Higher - More organic ...

Condensation polymers Some polymers are made via condensation polymerisation . In condensation polymerisation, a small molecule is formed as a by-product each time a bond is formed between two ...

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