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Polymer Solutions Definition

Polymer solutions undergo a liquid-liquid phase separation where the polymer-rich phase is referred to as the coacervate phase. Dispersion of formed colloids is unstable and there is a tendency for coalescence (merging of colloids).

Polymer Solution - an overview | ScienceDirect Topics

Polymer solutions are solutions containing dissolved polymers. These may be liquid solutions (e.g. in aqueous solution), or solid

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solutions (e.g. a substance which has been plasticized).

Polymer solution - Wikipedia

Solution, Polymer. a uniform, thermodynamically stable, and molecularly dispersed mixture of polymers and liquids of low molecular weight. The study of the optical, electrical, and hydrodynamic properties of diluted polymer solutions, in which the macromolecules are separated from each other, yields quantitative information on the molecular weight and the molecular-weight distribution of the polymer solute and on the dimensions, shape, and rigidity of the macromolecules.

Polymer Solution | Article about Polymer Solution by The

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Polymer Solutions Definition Polymer solutions undergo a liquid-liquid phase separation where the polymer-rich phase is referred to as the coacervate phase. Dispersion of formed

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colloids is unstable and there is a tendency for coalescence (merging of colloids). Polymer Solution - an overview | ScienceDirect Topics Polymer solutions are solutions containing dissolved polymers.

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Polymers made in solution generally have more linear molecules (that is, less branching of side chains from the main polymer chain), and they also have a narrower distribution of molecular weight... Read More

Solution polymerization | chemistry | Britannica

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and Osmotic Pressure 75

5603 FM p1-15

IUPAC definition. A polymer is a substance composed of macromolecules. A macromolecule is a molecule of high relative molecular mass, the structure of which essentially comprises the multiple repetition of units derived, actually or conceptually, from molecules of low relative molecular mass.

Polymer - Wikipedia

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Viscosity of Polymer Solutions Part I: Intrinsic Viscosity of Dilute Solutions. High molecular weight polymers greatly increase the viscosity of liquids in which they are dissolved. The increase in viscosity is caused by strong internal friction between the randomly coiled and swollen macromolecules and the surrounding solvent molecules.

Viscosity of Polymer Solutions

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Polymer solutions are considered dilute when polymer chains in a solution do not interact with each other. One important step in the characterization of these systems is the measurement of their longest relaxation times λ .

Relaxation time of dilute polymer solutions: A ...

Polymer Solution Viscosity and Concentration. The polymer solution viscosity is a key parameter to improve the mobility ratio between oil and water. As injection viscosity increases, the effectiveness of polymer flooding increases.

Polymer Concentration - an overview | ScienceDirect Topics

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Metal Properties: Hardness, Toughness ... - Polymer Solutions

The Gibbs free energy curves of mixing have been calculated with the compressible regular solution free energy model of Ruzette and Mayes 2. Anne-Valerie G. Ruzette and Anne M. Mayes, *Macromolecules* 34, 1894-1907 (2001) The process of nucleation and growth is not limited to polymer blends but has been observed for many other mixtures.

Polymer Properties Database

polymer solution increases which leads to significant decrease in the mobility ratio of the water food. The mobility ratio is the ratio of the displacing uid mobility to the displaced uid mobility. It is the primary factor that affects the areal sweep efficiency of a given well spacing and pattern of water

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Physical Properties of Associative Polymer Solutions

A polymer is material composed of a repeating monomer unit. Natural polymers include silk and amber. Although not precisely repeating, proteins can be considered natural polymers because of their repeating peptide backbone.

Definition of Polymer | Chegg.com

temperatures for an aqueous solution of a certain polymer, with the volume fraction of polymer $\phi \approx 0.05$. Data on the dependence of the viscosity $\eta(\dot{\gamma})$ as a function of the shear rate $\dot{\gamma}$ are also available at a single temperature. It is suspected that the polymer might associate in solution, and the question

Polymer Rheology: Principles, Techniques and Applications

1. the disentanglement of polymer chains, that is, the achievement of complete solution at very low concentrations

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which is not attained at high concentration (6, 7). 2. an expansion of the polymer coils with dilution may play a significant role in the anomaly in the viscosity behavior of polymer solutions at very low concentrations

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