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the rheology of polymer solutions is important in several stages of the manufacturing and processing of polymers such as in the spinning of fibers and the casting of films from solutions and especially in the paints and coatings industry the rheology of a polymer solution increases with the polymer concentration

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polymer solutions occur in two stages initially the solvent molecules diffuse through the polymer matrix to form a swollen solvated mass called a gel in the second stage the gel breaks up and the molecules are dispersed into a true solution not all polymers can form true solution in solvent

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solution polymerization is a method of industrial polymerization in this procedure a monomer is dissolved in a non reactive solvent that contains a catalyst or initiator the reaction results in a polymer which is also soluble in the chosen solvent heat released by the reaction is absorbed by the solvent reducing the reaction rate

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polymers have come to occupy a very important niche in the materials we use every day what makes them unique why do they have properties that aren t easily replicated by other materials let s start with a property that you are probably familiar with viscosity is a term we use to describe the thickness of different liquids

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sebastian koltzenburg michael maskos oskar nuyken 106k accesses 1 citations abstract polymers especially when compared with the monomers from which they are built have a number of special properties for example polymers such as starch and polypropylene oxide are much less soluble in water than their monomers glucose and propylene oxide

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surfactant association to surface active polymers can be strong 278 the interaction between a surfactant and a surface active polymer is analogous to mixed micelle formation 280 phase behavior of polymer surfactant mixtures resembles that of mixed polymer solutions 282 phase behavior of polymer surfactant mixtures in relation to

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electrochromic porous thin films are promising for applications in smart windows and energy efficient optical displays however their generally poor processing ability and excessive processing times remain grand challenges herein we report the design and convenient synthesis of core altered n arylated viologens

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the continuous flbs were woven into a 50 cm 30 cm textile to provide an output capacity of 2 975 mah the flb textiles worked safely under extreme conditions such as temperatures of 40 c

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