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Polymers have entered the life of the twentieth century as irreplaceable construction materials. Polymers differ from other substances by the size of their molecules which, appropriately enough, are referred to as macromolecules, since they consist of thousands or tens of thousands of atoms (molecular weight up to  $10^6$  or more) and have a macroscopic rectilinear length (upto 10 cm).

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Mesoscopic theory of the viscoelasticity of polymers. Chitanvis SM(1). Author information: (1) Theoretical Division, Los Alamos National Laboratory, Los Alamos, New Mexico 87545, USA. We have advanced our previous static theory of polymer entanglement involving an extended Cahn-Hilliard functional, to include time-dependent dynamics.

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Theory and mechanism. Reptation theory describes the effect of polymer chain entanglements on the relationship between molecular mass and chain relaxation time (or similarly, the polymer 's zero-shear viscosity). The theory predicts that, in entangled systems, the relaxation time is proportional to the cube of molecular mass,  $M: \tau \sim M^3$ . This is a reasonable approximation of the actual ...

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