

Compartmentalization and Delivery via Asymmetric Copolymer Monolayers with Swollen or Inverse Swollen Micelles

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We investigate the equilibrium properties and the underlying dynamics of emulsions formed in asymmetric A-B copolymers in matrices of immiscible B and C molecular fluids using coarse-grained molecular dynamics simulations. This monolayer collapse mechanism can be exploited to generate nano-reactors or containers that enhance the delivery of molecular components into immiscible molecular fluid environments.

