

Dynamic modelling of multi-phase latex particle morphology

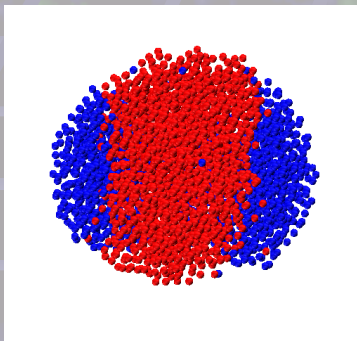
Collaborators: E. Akhmatskaya (BCAM), J. M. Asua (POLYMAT)

Objective: Developing novel, computationally feasible, dynamic models for prediction of equilibrium morphologies as well as the process of developing morphologies based on the experimental observations

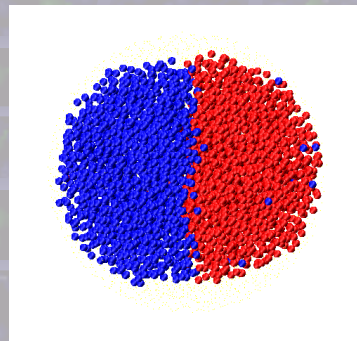
Applications: multiphase waterborne systems (e.g. polymer-polymer (alkyd-acrylic, polyurethane-acrylic, etc) , polymer-polymer-inorganic hybrids (silica, clay, etc)).

Morphologies of two-phase polymer observed experimentally and reproduced computationally

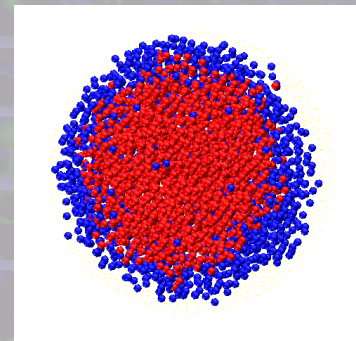
Sandwich



Hemi-spheres



Core-shell



Inverted core-shell

