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Figure 12a. System snapshots of polymer nanocomposite ($N = 100$, $N_{ch} = 48$) at different effective packing density, ρ_{eff} . The nanofiller, shown in red, corresponds to a single, impenetrable sphere with diameter d_{sph} (in units of σ) whose center is located at the center of the simulation cell: $\rho_{eff} = 0.01$, $d_{sph} = 5$. Monomers are colored according to the parent chain and are shown as semitransparent spheres for clarity.