|  |  |  |
| --- | --- | --- |
| a) | b) | c) |

**Figure Supplement Material.** Independent simulations starting from different hard-sphere chain configurations. Snapshots of system configurations at the end of the MC simulation corresponding to the following sets of interaction intensity, ε, and range, σ2: (a) ε = 0.5 and σ2 = 1.2; (b) ε = 1.0 and σ2 = 1.2; (c) ε = 0.5 and σ2 = 2.0. Sphere monomers are color-coded according to the CCE norm: Blue, red and green correspond to HCP-, FCC- and FIV- like sites, respectively. Amorphous (neither HCP/FCC nor FIV) monomers are shown in yellow and with reduced radii to enhance clarity.