Molecular dynamics study of surface-tethered S(CH2CH2O)6CH3: helix formation and thermal disorder.

We present the results of a molecular dynamics study of a set of surface-tethered S(CH2CH2O)6CH3 chains. In this study, we found that the chains form helical structures on the surface, but also exhibit thermal disorder or void regions that expose the bare surface, even in the presence of strong chain-surface attractive interactions.