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Phase Behavior of Semiflexible Block Copolymer droplets in isotropic homopolymer matrix PING TANG, JIE GAO, JIANFENG LI, YU-LIANG YANG, Key Laboratory of Molecular Engineering of Polymer,and Department of Macromolecular Science, Fudan University — We investigate the phase behavior of semiflexible-coil block copolymer droplets in the matrix of isotropic homopolymers by using an efficient pseudo spectral method to solve self-consistent field theory (SCFT) equations. The semiflexible blocks are described with worm-like chain model and the Maier-Saupe orientational interactions are included to deal with semiflexible chains. We will interested that the influence of microphase separation of semiflexible-coil block copolymers coupling with liquid crystalline behavior of rod blocks on the interface and droplets shapes.

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