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Transformation kinetics of BCC sphere morphology of diblock copolymer under electric field ANDREI ZVELINDOVSKY, DUNG Q. LY, MARCO PINNA, University of Central Lancashire, UK, TAKASHI HONDA, ZEON Corp., Japan, TOSHIHIRO KAWAKATSU, Tohoku University, Japan — We performed Dynamic Self-Consistent Field simulation of BCC sphere morphology of diblock copolymers under an electric field. Several distinct kinetic pathways were determined. Different pathways were found depending on the strength of the applied electric field and orientation of the BCC domain. The fastest growing mode was found in 111 directions. Dynamic critical exponents were deduced from the simulation data. The results are compared with the previous works on different morphologies and on BCC morphology by different techniques.

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