



## LAMELLAR MORPHOLOGY EVOLUTION IN SINGLE SCREW EXTRUSION

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The control of blend morphologies during process is of prime importance in order to predict the final properties of polymer blends. Many authors conclude that achieving lamellar blend morphologies, known to be quite instable, requires several blending steps. In this paper, we study the development of lamellar blend morphology during a first extrusion using a single-screw extruder. The aim of this study is then to retain this lamellar morphology during a second subsequent extrusion step. The morphology of the obtained structure is investigated as a function of different parameters such as the viscosity ratio, the screw speed, the barrel temperature