

Coupling between flow and thermodynamics in phase segregating systems: More experiments and marginal theory

Mosto Bousmina

Canada Research Chair on Polymer Physics and Nanomaterials

Department of chemical engineering (CRASP, Polytechnique), Laval University

Ste-Foy G1K 7P4, Canada

Coupling between rheology and morphology in two-phase systems will be discussed on several examples including immiscible polymer blends and blends undergoing phase segregation. Theory and in-situ morphology observations during flow will be exposed. Focus will be mainly made on the role of flow on phase diagram of such blends.