

# Abstract: Droplet Dispersion and Coalescence in a Polymer Blend in Flow Fields

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## Abstract

In this paper, the deformation, breakup, and coalescence of dispersed phase droplets in newtonian liquid systems and viscoelastic liquid systems are reviewed. For newtonian liquid systems a generally good understanding of dispersed phase morphology has been gained, whereas for viscoelastic liquid systems the comprehension is limited, especially for the effect of elasticity.

Keywords: polymer blend, flow field, dispersed phase, morphology, deformation, breakup, coalescence