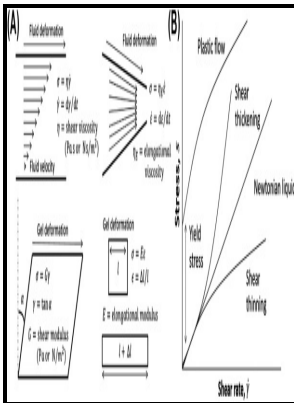


Evaluation of shear and elongational flow regimes on the oscillatory rheological properties of a model of chocolate

University of Birmingham - Elongational Flow



Description: -

- Evaluation of shear and elongational flow regimes on the oscillatory rheological properties of a model of chocolate
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Rheology of pastes : effects of fibrillation, thixotropy and structure

Contours of the structural parameter in toothpaste extrusion at 23oC for three different apparent shear rates.

Evaluation of a Constitutive Equation for Magnetorheological Fluids in Shear and Elongational Flows

Willenbacher Langmuir, 25 2 , 716-729 2009 S. Foam was observed to fail mechanically at high stresses. As temperature increases from 25oC to 45oC, the trend remains almost the same.

KIT Polymer Science

Chapter 7 is based on a submitted manuscript. The effect of apparent shear rate and reduction ratio on the steady-state extrusion pressure of chocolate at 25°C using capillary dies having length-to-diameter ratio of 20 and contraction angle of 45°. Such materials can be of application in orthopedic applications, where protection from fall and impact of hips, knee and elbow and other joints is desired.

SPE

The major trends are well captured by the thixotropic model and show that slip is the essential parameter in predicting the flow behaviour of toothpaste. Comparing these data with data obtained from shear-rate sweep experiments shows that the shear rates at the same shear stress values are not necessarily the same due to the occurrence of shear banding. Maximizing oil recovery from current reserves is becoming more important as global usage continues to rise.

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