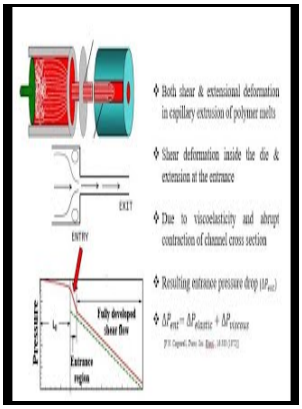
Application of flow birefringence to rheological studies of polymer melts

Delft University Press - Flow birefringence of polymer melts: Application to the investigation of time dependent rheological properties



Description: -
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Tags: #Polymer #Melt #Rheology #and #Flow #Birefringence

Validity of the stress optical law and application of birefringence to polymer complex flows

This type of re sponse is termed elastic. The extra param eter is time. Es ergibt sich, daß das im Wesen lineare Modell der gummiartigen Flüssigkeit, wie es von Lodge vorgeschlagen wurde, sich recht gut zur Beschreibung des Verhaltens von Polymerschmelzen eignet, solange der im ganzen angelegte Schub den Wert Eins nicht überschreitet.

Flow birefringence in polymer rheology, Polymer Engineering & Science

This type of reÂ sponse is termed elastic. Certainly, the fourth chapter will appeal to the latter group. The two definitions just given for viscous and elastic response represent ~wo extremes of response to an external force.

Flow birefringence in polymer rheology, Polymer Engineering & Science

For every day fluids as water, the natural time is very short, of the order of 10-10s 1 and hence for most purposes is considered as being viscous.

Polymer Melt Rheology and Flow Birefringence

For everyÂ day fluids as water, the natural time is very short, of the order of 10-10s 1 and hence for most purposes is considered as being viscous. This natural time may be thought connected with the rates of spontaneous diffusion of its molecular and atomic constituents. An additional parameter is needed to describe material response more fully.

The application of flow birefringence to rheological studies of polymer melts

Results from a rheo-optical study of polydimethylsiloxane PDMS melt flowing through a converging wedge cell at room temperature for pressure drops of 276, 483, and 689 kPa are described. The two definitions just given for viscous and elastic response represent ~wo extremes of response to an external force.

The application of flow birefringence to rheological studies of polymer melts by J.L.S. Wales (Paperback, 1976) for sale online

This type of response is termed viscous.

Validity of the stress optical law and application of birefringence to polymer complex flows

Materials do not always fall readily into one or the other of the above-mentioned categories. The cell can be adapted for transient flow experiments.

A rheo

The orientation angles computed using a two-term version of the Goddard-Miller model with a single Maxwell-type relaxation time constant of 0.

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