

عنوان مقاله:

Investigation of overshoot in elongational viscosity of LDPE with prediction of MSF model

محل انتشار:

پانزدهمین کنگره ملی مهندسی شیمی ایران (سال: 1393)

تعداد صفحات اصل مقاله: 5

نویسندگان:

Ehsan Khoshbakhti - *Tarbiat Modares University, Chemical Engineering Department, Polymer Group, P.O.Box: 14115-114, Tehran*

Nadereh Golashan Ebrahimi - *Tarbiat Modares University, Chemical Engineering Department, Polymer Group, P.O.Box: 14115-114, Tehran*

Masood Khabazian - *Tarbiat Modares University, Chemical Engineering Department, Polymer Group, P.O.Box: 14115-114, Tehran*

خلاصه مقاله:

The presence of long side chains in LDPE molecule leads to the rise of uniaxial viscosity above trouton ratio in uniaxial elongational flow. In this paper the dynamic oscillatory tests at 3 different temperatures used for evaluating the time-temperature superposition. All dynamic moduli shifted to the reference temperature of 160 oC. The superimposed data showed that the time-temperature superposition principle holds for the studied LDPE. The strain hardening behavior of LDPE studied in unidirectional flow, at different strain rates. The strain hardening is investigated by the accuracy of MSF model predictions

کلمات کلیدی:

Low density polyethylene, Dynamic frequency, Strain hardening, MSF model

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/368497>

