

ANISOTROPIC VISCOSITY OF POLYMER MELTS

N.I. Insarova

Belarusian state medical university, Minsk, Belarus

vasilenkol@list.ru

The focus of the present work is to investigation the flow induced anisotropy of viscosity for polystyrene and polyethylene. For this purpose, the optical analysis of flow in the convergent channel was used. We show that the ratio of elongation viscosity in the direction of preferred orientation and the shear viscosity in orientation plane is different for various polymers, may reach 3 or more.