

Study of secondary relaxation transitions in polysulfone and polycarbonate by a method of conformational probes

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Abstract

The local molecular mobility of polysulfone and polycarbonate was studied using a method of conformational probes. Freezing temperatures of conformational equilibria of probe molecules in these polymers were determined using FTIR spectroscopy. The obtained temperatures of relaxation transitions were assigned to the types of conformational mobility of benzene rings of the main polymer chain. © 2011 Springer Science+Business Media, Inc.

<http://dx.doi.org/10.1007/s10812-011-9491-0>

Keywords

conformation, glassy polymers, IR spectroscopy, relaxation transition