

SPECTROSCOPY OF POLYGERMANE FILMS

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S u m m a r y

Absorption spectra in the temperature range 293–423 K and fluorescence spectra (5 K) of films, powders, and solutions of poly(di-*n*-hexylgermane) (PDHG) are investigated. Special attention is paid to the dependence of the spectra on the thickness of films and temperature. The obtained results are compared to data for poly(di-*n*-hexylsilane). It is shown that the structure of the absorption and fluorescence spectra of PDHG is caused by the presence of several structural forms of the polymer, whose polymer chains have different compositions of *trans*- and *gauche*-conformers.