

EFFECT OF ACCEPTORS ON ENERGETIC
DISORDER IN POLY(METHYLPHENYLSILANE)
FILMS

*V. N. Zaika, A. K. Kadashchuk, N. I. Ostapenko,
Yu. A. Skryshevski, S. Nespurek*¹

Institute of Physics, Nat. Acad. of Sci. of Ukraine
(46, Nauky Prosp., Kyiv 03028, Ukraine),

¹Institute of Macromolecular Chemistry,
Academy of Sciences of the Czech Republic
(Heyrovsky Sq. 2, 162 06 Prague 6)

S u m m a r y

Effect of acceptor dopants on the energetic disorder of charge carrier localized states in poly(methylphenylsilane) films is studied by the low-temperature thermally stimulated luminescence and photoluminescence. Decreasing the energetic disorder parameter with increasing the acceptor dopants' concentration is explained by formation of charge-transfer complexes between acceptor molecules and the predominantly longest segments of σ -conjugated polymer chains.