

Photophysical Properties of new Polymerizable 1,8-Naphthalimides and their Copolymers with Methylmethacrylate

Ivo Grabchev and Desislava Staneva

Institute of Polymers, Bulgarian Academy of Sciences, BG-1113 Sofia, Bulgaria

Reprint requests to Prof. I. G.; Fax; 359 2 8707523; E-mail: grabchev@polymer.bas.bg

Z. Naturforsch. **58a**, 558 – 562 (2003); received June 24, 2003

In this paper we discuss the photophysical properties of some 4-nitro- and 4-allylamino-*N*-phenyl-1,8-naphthalimides having different substituents in the phenyl ring, and their copolymers with methylmethacrylate in solid films. The influence of the substituents at the phenyl ring and the environment (methanol or polymer matrix) on the absorption and fluorescence properties is also discussed.

Key words: 1,8-naphthalimide Derivatives; Absorption; Fluorescence; Photophysics.