

HOLOGRAPHIC RECORDING MEDIA BASED ON ELECTRONS DONOR OLIGOMERS

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Abstract. Information properties of the recording media for photothermoplastic technique with the films of oligomer composites based on carbazole containing cooligomers of linear and radial structures with branching center on silicon atoms are investigated. It was ascertained that the media based on the radial oligomers possess higher holographic sensitivity due to higher plasticity and ability to accumulate volume electric charge during the exposure. Examples of practical application of the investigated recording media are presented.

Keywords: carbazole, oligomer, photothermoplastic, holographic recording.