



Comb-Shaped Polymers and Liquid Crystals (Specialty Polymers)

N.A. Platé, V.P. Shibaev

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Comb-Shaped Polymers and Liquid Crystals (Specialty Polymers) N.A. Platé, V.P. Shibaev to the American Edition We are pleased that our modest work, published some time ago in Russian in Moscow* and which attracted the attention of polymer specialists, will now be available to the English speaking audience of scientists - chemists, physicists, and technologists engaged in creating new types of polymer materials for modern technology and working on the fundamental problems of the solid-state physics and structure of polymer- due to the initiative of Plenum Press. In polymer science, the 1980s were marked by the birth of a new field and a new scientific trend related to the discovery and study of a previously unknown class of polymers thermotropic liquid-crystalline polymers - and the further development of the fundamental theoretical concepts of the liquid-crystalline (mesomorphic) state of macromolecular compounds. This state is a phase state in thermodynamic equilibrium characterized by the anisotropy of the structure and properties as a result of one-dimensional or two-dimensional ordering. Such systems have an ordered but simultaneously labile structure which can easily be altered by mechanical, electrical, or magnetic fields; the polymer system then acquires unique physical and optical properties. These properties, which are acquired in the liquid-crystalline state, are then fixed in the solid at the operating temperatures. *N. A. Plate and V. P. Shibaev. Comb-Shaped Polymers and Liquid Crystals [in Russian]. Khimiya, Moscow (1980). †See the review of this book by H. Mark in J. Polym. Sci. Polym. Lett. Ed., 20, 139 (1982).

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