

DIELECTRIC PROPERTIES OF
POLYMER-STABILIZED LIQUID CRYSTALS
WITH ISOTROPIC LIQUIDS OF DIFFERENT
CONDUCTIVITIES AS IMPURITIES

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S u m m a r y

It is shown that the introduction of isotropic impurities in polymer-stabilized liquid crystals (LC) over a wide range changes the conductivity of dispersions even under conditions of separation of phases after polymerization. The major factors are considered which can influence the conductivity of three-component mixtures, and their contribution is appreciated. In structures with a diameter of LC drops of the order of 1 μm , we have found a new region of dispersion of the components of complex dielectric permittivity. The assumption is made that such a dispersion is caused by a local change of the orientation of molecules on the interface LC-polymer.