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Application of Flexographic Printing Technique to Fabrication of Flexible Liquid Crystal Displays

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Abstract

Thin, light-weighted flexible displays are eagerly awaited in the field of next generation liquid crystal (LC) technologies. We created a novel-structure flexible LC display containing polymer structures of lattice-shaped walls and aligned fiber networks, which is formed through printing technique. The polymers fasten two flexible thin plastic substrates and keep the substrate gap constant even when it is bent. A flexographic printing technique was used in coating an LC/monomer solution onto a plastic substrate for large-size panel fabrication, and then the monomers were polymerized and cured by UV irradiation processes. We demonstrated a flexible color display using the fabricated LC panel (A4 paper size).

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