

ABSTRACT

A homeotropically-aligned liquid crystal film is obtained by the following process: applying a liquid crystalline composition containing a side chain-type liquid
5 crystal polymer and a photopolymerizable liquid crystal monomer onto a substrate having no vertical alignment film; homeotropically aligning the liquid crystal polymer and the liquid crystal monomer in a liquid crystal state; and polymerizing or crosslinking the liquid crystal monomer by photoirradiation. The side chain-type liquid crystal polymer has a monomer unit containing a liquid crystalline
10 fragment side chain and a monomer unit containing a non-liquid crystalline fragment side chain. It is preferred that a stretched film is used as the film substrate and a temperature for aligning the liquid crystal compound is within a specific range.