

Liquid Crystalline Polyacrylates Containing Pyridine and Chiral Terminal Group

진 양석, 임 재봉, 홍 성일
서울대학교 섬유고분자공학과

Four acrylate monomers having mesogenic moieties based on (S)-2-Methylbutyl pyridine-3-carboxylate and (S)-3-Methylpentyl pyridine-3-carboxylate were synthesized. The influences of the variation of the chiral moiety and of the spacer length were discussed. The corresponding polymers were prepared by free-radical polymerization. Their liquid-crystal behaviours were investigated by differential scanning calorimetry, polarized optical microscopy, and X-ray diffraction.

