

Cellulose / Ammonia / Ammonium Thiocyanate 액정 용액으로 부터 제조된

섬유및 필름의 특성

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ABSTRACT

Fibers and films were formed from mesophase solutions of cellulose in the ammonia/ammonium thiocyanate. The physical properties of the fibers and films were discussed with considering the properties of the mesophase solutions used. A cholesteric and nematic solutions were formed in the solutions. Fibers were extruded from the both kinds of solutions. The fibers from the nematic solutions were more highly oriented, more fibrillar in texture and apparently stiffer than those from the cholesteric solutions. The fibers spun in the technique of dry-jet wet using the nematic solutions had moduli comparable to those of Fortisan[®]. The film made from these mesophase solutions had good appearance and strength which were comparable with commercial Cellophane[®].