

셀룰로오스에의 N-비닐 이미다졸과 메타크릴산의
그라프트 공중합과 그 응용

우종범, 고석원

서울대학교 공과대학 섬유공학과

Graft copolymerization of N-vinyl imidazole/methacrylic acid onto cellulose fabric was carried out by initiating with benzoyl peroxide in emulsion. The effect of the total amount and mixing ratio of sodium lauryl sulfate (anionic surfactant) and Triton X-100 (non-ionic surfactant) on graft yield was studied. And the effect of concentration and mixing ratio of monomers on graft copolymerization was also investigated. Nitrogen in grafted cellulose was quaternized by ethyl bromide. The dyeability for acid dye and anti-microbial activity of grafted and quaternized cellulose was estimated.