Characterization of Cleaning Ability of Polluted Fibers by an Ecofriendly Polymer Detergent

강수정, 이평찬[1], 이준호[2], 김동욱[2], 김재우[3], 한태훈[1], 남재도[1,*]

성균관대학교 고분자기술연구소;

[1]성균관대학교 고분자시스템공학과;

[2]성균관대학교 GRRC; [3](주)서희건설

(jdnam@skku.edu*)

The ecofriendly detergent were made by biodegradable polymer. There are various tests to measure a washing ability of test fabrics. Chitosan has many useful properties such as biocompatibility, biodegradability, antimicrobial activity, wound healing property, etc. In addition, chitosan is expected to be useful in the development of adsorption materials such as blends with other polymers, since chitosan has many functional groups. In this study, a characterization of detergent compared on detergency, strain removal, content of heavy metal, content of P_2O_5, and biodegradation. The results showed that the detergent had biodegradable and safe properties.