폴리우레탄 수지에 의한 면직물의 투습 방수 가공

임용삼, 고석연

서울대학교 대학원 섬유공학과

By direct coating with soft polyurethane resin and wet coagulation, water-proof and moisture-permeable cotton fabrics were obtained.

With increasing of resin concentration and solid add-on, water entry pressure of coated fabrics increased, but water vapor transmission of them decreased. In addition, peeling strength of them increased with increasing of resin concentration. These phenomina could be explained by SEM.

When coated resin was coagulated in coagulating bath including no DMF at room temperature, physical properties of water-proof and moisture-permeable fabrics were best. Their water entry pressure and water vapor transmission were controlled by silica powder.