

직물구조가 신흡섬 직물의 역학적 특성에 미치는 영향(I) 직물밀도 및 감량가공이 전단특성에 미치는 영향서 문 호건국대학교 공과대학 섬유공학과Effect of Fabric Structure on the Mechanical
Properties of Shingosen FabricMoon Hwo SeoTextile Eng. Dept. School of Eng. Kon Kuk Univ. Seoul, KoreaAbstract

From many reseach results, it has been demonstrated that the mechanical properties have been shown good correlation to subjective fabric handle. A quantitative study has been conducted on the shear properties of fabric and fabric construction parameters. and alkali weight reduction. The primary results indicate that (1) shear modulus properties are strongly related to inter-yarn reaction forces and free volume of in fabric and (2) shear hysteresis at small shear strain(2HG) shows more dependency on the yarn shear properties itself than hysteresis at the large shear strain(2HG5). Therefore, weight reduction and shrinkage difference reduce inter-yarn force causes very low shear modulus and shear hysteresis.