

Weaving and Bleaching of Ramie–Silk Mixture Fabrics

Young Dae Kim, HaeYong Kweon and Yong Woo Lee

Dept. of Sericulture and Entomology, NIAST, Suwon 441–100, Korea

The weaving efficiency of ramie–silk mixture fabrics and the effect of bleaching on strength and elongation, stiffness, and crease resistance were examined. Weaving efficiency of mixture fabrics were improved by mixing with silk yarn as warp or weft. In particular, the weaving efficiency of mixture fabrics was increased compared to pure ramie, when silk yarn is used as warp. The whiteness of ramie and tussah fiber treated with hydrogen peroxide, bleaching agent, was increased up to about 80% without significant changes of tenacity and elongation. The whiteness of mixture fabrics was related to the increase of bleaching agent and treatment time. Also, as the whiteness of mixture fabrics increased, the drape stiffness in the warp direction was decreased but crease recovery was increased.