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Research Paper

FUNCTIONAL, AESTHETIC AND COMFORT PROPERTIES AND HAND BEHAVIOUR OF RED ERI SILK-WOOL BLENDED SPUN YARN WOVEN FABRICS

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ABSTRACT

Long staple fibres of red eri silk were blended with wool fibre in different proportions for producing ring spun yarn on worsted system of spinning and the yarns produced were converted into plain woven fabrics on power loom. Various fabric properties viz., functional, aesthetic and thermal including low-stress mechanical properties and hand values were determined on Kawabata fabric evaluation system. Blending of eri with wool improved the fabric durability, aesthetics and wear comfort performance. Fabrics produced from eri-wool blends at ratios of 70:30 and 60:40 are suitable for summer and winter dress material, respectively.

Key words: Comfort, crispiness, firmness, fullness, Hauteur, red eri silk, stiffness, total hand value.