

COMPARATIVE STUDY OF MECHANICAL PROPERTIES OF UNION WOVEN FABRICS COTTON AND REGENERATED FIBERS VISCOSE BAMBOO AND MODAL

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ABSTRACT

The objectives of the present research work to develop the Union Fabrics having the 100% Cotton (2/50) in warp and 100 % Bamboo (1/30), 100 % Modal (1/30), 100 % Viscose(1/30) and 100 % Cotton(1/30) in weft and find out the most comfortable fabric in terms of mechanical properties Mechanical Properties Tensile Strength and breaking elongation, Tearing Strength and Abrasion Resistance of union fabrics with cotton yarn as warp and yarn from regenerated fibers (Viscose, Bamboo and Modal) as weft having properties similar or better than 100% cotton. Regenerated fibers were taken in order to reduce consumption of cotton. Three union fabrics i.e. Cotton-Modal, Cotton-Bamboo, Cotton-Viscose and the fabric with Cotton-Cotton composition were developed having same EPI, PPI and weave. Cotton –Modal fabric was found the best fabric out of Cotton-Bamboo, Cotton-Viscose and Cotton-Cotton

KEYWORDS: *Cotton, Viscose, Bamboo, Modal, Strength, Warp, Weft, Load*