THE INFLUENCE OF BENDING RIGIDITY ON DRAPE COEFFICIENT OF SELECTED

LIGHT WEIGHT WOVEN FABRICS WITH SEAMS

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**ABSTRACT** 

Fabric drape which is a unique characteristic provides a sense of fullness and a graceful appearance that

distinguishes fabrics from other sheet materials. It is an important component for a garment's aesthetic appearance and also

plays a crucial role in garment comfort and determining the fit of clothing around the human figure. Draping characteristics

of fabrics has received major attention in fashion designing since designers have exploited the draping property of fabric in

creating new styles in accordance with changing fashion trends. Though the drape is considered as a qualitative term

assessed by human eye, it is important to have a realistic evaluation to understand not only the nature of drape with respect

to the type of seams, number of seams and type of stitches but also the influence of other mechanical properties on drape.

Thus the research focuses to explore the influence of bending rigidity which is one of the mechanical properties of

fabrics on drape coefficient of selected light weight woven fabrics with seams. For the study, two main experiments;

draping testing and bending testing were done. The outcome of the research will help to understand, evaluate, and give

assurance of the appearance of the final garment. Moreover the result will shed more light on ways of using the drape

behavior of fabrics with seams during the apparel designing and pattern construction process.

**KEYWORDS:** Bending Rigidity, Drape Coefficient, Fabric Drape, Seam Direction