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"Influence of Some Woven Fabric Constructional Parameters on Seam Efficiency"

Z. M. Abdel Megeid¹*, Mohamed M Ezzat¹, Rehab M. Ali²

¹National Research Centre, Textile Division, Cairo, Egypt, Postal code 12622 ²Zagazig University, Home Economics dept, Zagazig, Egypt

Abstract: Fabric and seam strength is an important characteristic which affects the performance and durability of clothing during its usage life. This paper presents a study of the effect of some weaving parameters like cover factor; CF and weave structure of 100% linen fabric and polyester/linen blended fabric. Four weave structures and two levels of cover factors were used for each fabric.

Both Fabric and seam tensile strengths were measured using INSTRON tensile tester. The seam efficiency for warp and weft direction was calculated.

The effects of both cover factor and weave structures on the efficiency of sewn seams for the two types of fabrics have been investigated and the regression analysis were applied to get a mathematical relationship. The main conclusions were a direct relation between the CF and the seam efficiency, and a significant effect of the weave construction on the seam efficiency was found.

Keywords: polyester fabric, polyester/linen blend, seam strength, analysis of variance, regression analysis, average float, fabric cover factor.

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