Technological Problems of Seam Machines Performance affecting the Quality Characteristics of Sewing polyester fabrics

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Abstract:
Sewing problems are considered as the more important difficulties which face the garment industry, Sewing machine greatly affect on the production efficiency and seam appearance and quality, consists of parts each of which plays an important role in sewing operations. Some make stitch, some control the movement of fabrics and others control the sewing thread tension ,So the choice of feeding system and make appropriate adjustments of the machine before sewing have a big impact in getting quality requirements. Hence, the aim of the research is to Study the factors affecting on the Quality of Garment Seam. Research hypotheses represented on that there are significant differences for effect of each of the following (length of stitch -Yarn tension - Foot pressure) on Quality seam. Laboratory tests were conducted such as (Seam strength and elongation - Seam stiffness - Seam pucker - Seam appearance) on the samples produced under the research to determine their different properties and the relationship of these properties to the variables of the study factors (length of stitch -Yarn tension - Foot pressure) The results: There are significant differences of the effect of yarn tension and stitch length on seam strength, Elongation and seam appearance at a level of significance <0.01, There are on significant differences of the effect of foot pressure seam pucker at a level of significance <0.05,

Keywords:
Sewing Quality , Seam Length, Foot Pressure, stitch line, Thread tension, Stitch Characteristics

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