

The Effect of Different some Structural Factors "The kind and density of wefts" and Sewing Seams on The Functional Performance of upholstery fabrics

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Abstract:

In addition to the lack of research on the effect of structural factors and the different seams process on the functional performance of the upholstery fabrics, this study was conducted to identify the effect of some structural factors for these fabrics. Synthetic yarns such as (polyester texture, polyester flat, polypropylene) used as wefts, densities of these wefts (15-20-25) per cm, and some types of seams during fabric production (simple seam - compound seam - French seam), For the purpose of producing furniture fabrics with more characteristics suitable for the functional performance produced for it (upholstery fabrics) using some structural structure variables (different yarns of different density) and different seams, with consistency of fabric and texture composition used, showing the importance of research in determining the most important factors affecting Producing distinct types of upholstery fabrics suitable for efficient use as upholstery fabrics, and their reflection on their functional performance. The applied statistics were used to compare the above variables, and the statistical radar was used to select the best research samples produced after the mechanical tests on the finished products.

There was a clear variation in the test results of the samples under study (tensile strength, friction resistance and tear resistance), which showed a direct effect of the materials and the density of the wefts and the quality of the sewing seams on the different characteristics of the functional performance of the fabrics produced, Of the final product

Keywords:

Structural Composition Factors - Textile Density - outer clothing –sewing seams - polypropylene - Polyester – upholstery fabric- synthetic yarns