

Effect of Functional Finishing of Upholstery Fabrics (Stain Release & Water Repellent) on Its Abrasion Resistance

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Abstract:

In terms of the manufacturing technique, upholstery fabrics are classified into woven, non-woven, and knitted materials. Woven fabrics are woven with a loom machine which is made of two systems of threads (the warp and the weft) perpendicular to each other, and braided in a certain order. In this study four samples were treated chemically (Stain release & water repellent finish) to conclude its effect on abrasion resistance property. Methodology: Practical Experiments and Laboratory Tests including Stain Release and Water Repellent Chemical Treatment on samples with specification (cotton and linen with different textile structures and cover factor) , the four samples are treated to release stain and repel water to improve functional performance. Findings: It is noticed that: There is a decrease in the abrasion resistance of the four studied samples which means that the chemical finishing effects on abrasion property negatively. After calculating the correlation coefficient between samples cover factor and the tests results there is a moderate positive correlation coefficient between the samples cover factor and the loss of weight percent test results.

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