

## عنوان مقاله:

Influence of Cover Factor on the Physical Properties of Woven Fabrics

## محل انتشار:

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#### خلاصه مقاله:

The aim of this paper is to explore the influenceof cover factor on the physical properties of woven fabrics.) ο cotton woven fabrics of different thread count andwidth were used in this research for investigation. Nine typesof fabric with different weaves like plain (۱/1), twill (Ψ/1) and Δ ends satin (F/1) were used while conducting the tests. The experiments were carried out in agreement with the testmethod provided by ASTM and AATCC as mentioend insidethe paper. The cover factors of the samples were measuredwith an appropriate equation using weave factor values. Itwas seen from the research that, plain weave fabrics showedthe maximum cover factor and weight (g/m²) values compared to will and satin fabrics. It was because, plain weave containsmaximum interlacement points compared to other weavestructures. The fabrics of plain weave showed the maximumstrength values, maximum air permeability values, and leastshrinkage values. Fabrics with plain weave contain moreinterlacement, thus showed the maximum air permeabilityvalues. This research is practice-based and opens up possibleways for further study by technologists in this field of fabriccover factor and its influence on the physical properties offabrics

# كلمات كليدى:

cover factor, Strength, dimensional stability, air permeability, microscopic assessment

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