The Effect of Fabric Structural Parameters and Fiber Type on the Comfort-Related Properties of Commercial Apparel Fabrics

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The effect of fabric structural parameters and fiber type on the comfort-related properties, namely water vapor resistance and thermal resistance, of commercial apparel (suiting) fabrics, containing both natural and man-made fibers have been studied using a Permetest. The effects of the various fabric parameters on the comfort-related properties were determined and quantified using multiple regression analyses and best fit regression equations. It was found that the fabric parameters, mass and thickness in particular, had a much greater effect on the comfort-related properties, than did the fiber type or blend, or fabric structure.